

# SEQUENCE LISTING

<110> Recipon, Herve  
Sun, Yongming  
Chen, Sei-Yu  
Liu, Chenghua  
Turner, Leah

<120> Compositions and Methods Relating to Lung Specific  
Genes and Proteins

<130> DEX-0243

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<150> 60/243,259

<151> 2000-10-26

<160> 244

<170> PatentIn Ver. 2.1

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<210> 16  
 <211> 400  
 <212> DNA  
 <213> Homo sapiens

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 <222> (188)..(212)  
 <223> a, c, g or t

<220>  
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 <222> (346)  
 <223> a, c, g or t

<220>  
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 <222> (394)  
 <223> a, c, g or t

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 gcttttgnnn nnnnnnnnnn nnnnnnnnnn nnggtatgtt ggggtgggga gggaccaggg 240  
 gaagggtctg ggaactgagg gatgcctggg tcaactgctgc ccactgcctc tacagaccaa 300  
 caaaggcttg ggccaaaggg ggacatccca gggggcaggg gccgntccc gcctgtcctt 360  
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<210> 17  
 <211> 665  
 <212> DNA  
 <213> Homo sapiens

<400> 17  
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 aattaatgct ttttataaga ttttgtgatg ttaagcttca acctgcagt tcattattag 600  
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<210> 18  
 <211> 465  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> unsure  
 <222> (14)  
 <223> a, c, g or t

<220>  
 <221> unsure  
 <222> (171)  
 <223> a, c, g or t

<220>  
 <221> unsure  
 <222> (339)  
 <223> a, c, g or t

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<210> 19  
 <211> 635  
 <212> DNA  
 <213> Homo sapiens

<400> 19  
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 cttaattata caaatgggaa tactttcaag tgtaaaaaaa ggcgatgac atgttgacat 420  
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acgagcccaa ataatatatt ttgcccttct gcgcaataga gtaaaaaaa atgcaatgct 540  
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gatagtattc agaccatttc caggagcccg ttgtg 635

<210> 20  
<211> 375  
<212> DNA  
<213> Homo sapiens

<400> 20  
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gcttctctgaa agaagtggtc tgtagcagaa cctaggtgaa cctaggtgga aataaaatca 240  
aatggatagg agtgggaagt ccaggaaagta tgttggaagg accttgaat aggttggaaga 300  
tggttgagg acctttgtgc aaatcagact gtggagggcc ttgcatgtca gacaaaatag 360  
ttgttaaat gaatg 375

<210> 21  
<211> 907  
<212> DNA  
<213> Homo sapiens

<400> 21  
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agagaccttt taacaagtgc atttccctgg tgcattgaaa attggactgt gtccatgtgt 840  
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<210> 22  
<211> 501  
<212> DNA  
<213> Homo sapiens

<400> 22  
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 cttgcaactc tcagaagcaa ggataaaaat tacaaaaggac ctccaggagtc cagaactttt 420  
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<210> 23  
 <211> 551  
 <212> DNA  
 <213> Homo sapiens

<400> 23  
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 acaggactgt gctccagagg cacgcacctt ttatcacact caagaggggcg gacatgcttt 180  
 accaccggag aacgggggaaa acaaccgtat tatttcaaca aataatttca aaacaaaaaa 240  
 caaagaggga ttgaaagaga cttaaaagaa ccataaacca aaggcaatgt gtatgcttga 300  
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 aaattctaa acaatcagga taatttaatt cctgactaga tatgtgatga tgataaggaa 420  
 ctaatgtcaa ttttaagatg taataatggt attgtagttt tgttttttta aaatgcattg 480  
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 ataaagaatt g 551

<210> 24  
 <211> 206  
 <212> DNA  
 <213> Homo sapiens

<400> 24  
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 cctcagcaat attttacacc actctgtttt tcttattcat atgttgattt gaaagtctct 180  
 aaatgatctg agtgatccta tagttc 206

<210> 25  
 <211> 779  
 <212> DNA  
 <213> Homo sapiens

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<400> 25
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atagctgtgg cctcactttt tatgaatttt gcaactcgtt aactgcagca aaaaaaaaaa 180
gtgctgattt ttatattctg ctgcagaaat ctccagcttt ataattattt acatcatcca 240
aagctttaca gtagtcttct aatgtctact tccaaactct agcctttttt acctgggttg 300
gctattccag tgttcttacc attgttctata acctctgtat ctttcccgta tctgttgctc 360
acctttttca ttctgagtc attgctgctt ttaagaccag aactcttctc tgacacacat 420
aagtaacttt acttaatact acctctgact ttattttgca ttctctcagc aatattttac 480
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ctatagttcc aactactttg gaggctgaga taggaggatc atttgagccc aggagggtga 600
ggctgcagtg atcccaagaa actatacttc atctctaaaa aaacaataaa ataaaatttt 660
ttaatgcttt tcaattgata atgctttacc agcccttttg taagggtctt tcatctcttg 720
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<210> 26
<211> 754
<212> DNA
<213> Homo sapiens

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<400> 26
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tcccactcaa aagtacattt gggttaagaat cagttatttg cctactattt aaatgtgaga 180
tttgaggaaa gtaaaaagtc atagagtctt agagtgtctg ggctagagga aatcaaattc 240
aaccctccac ctaacttaag actcatcttg aaacatccc tataaatgct tatttgctgt 300
tacttaaatg ctcccacagg cagagattat aacctccaa aggagcactt ttaatttggt 360
atagcacaat tgtctaaaaa tactgttttt tactgtaagc tgaaatatgc tttcccagct 420
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tgactgtaga gttttctttt ctgtatccat ttaagtttac atatgctatg cctagaataa 660
actctagact gcagggaact gccctattag tgtgaaatgg tagtaggcat tctgatttcc 720
ctttaaaaag gactatactg gctgggtgca gtgg 754

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<210> 27
<211> 162
<212> DNA
<213> Homo sapiens

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<400> 27
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gtagatcaga atatcaactt ctagttttaag ataacagatt ga 162

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<210> 28  
 <211> 494  
 <212> DNA  
 <213> Homo sapiens

<400> 28  
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 tttccagcat ttgttctaga acaaaaaaca agaacaacaa aatgttgga tagtataagc 180  
 aaccgtcttc cttctgtcct ggaatgggta aagtgtgga agaggtgtga gaggaatat 240  
 gaattaacag acaattacaa tatactataa catacaggtg ataagaaca aatatgtoga 300  
 aactataatt ggatcacagt agaggggcat gtttatcttg gccaggagat tcaggaaagg 360  
 tgggtgagag tccatcagat gaagaaacgt agggaagaga tttttaagtg gaaggaataa 420  
 aagcaatctc ttggtgtgtg caatttggta aagtgggagg aggagagtgg cagataaatg 480  
 tggaaggagg gcca 494

<210> 29  
 <211> 749  
 <212> DNA  
 <213> Homo sapiens

<400> 29  
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 gcagtcagac ctcttaaaac aaggcccca aaacaaacgt ccagggaac aagaaaaact 240  
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 aagtgatact cctgctttaa cataaggggt ggaaaaaaat aaagctcaac tcttgaagga 360  
 agttatgtca aagaatttcc agcatttgtt ctagaacaaa aaacaagaac aacaaaatgt 420  
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 gagattcagg aaaggtgggt gagagtcatt cagatgaaga aacgtaggga agagattttt 660  
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 agtgcagat aaatgtggaa aggaggcca 749

<210> 30  
 <211> 507  
 <212> DNA  
 <213> Homo sapiens

<400> 30  
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 ctatgtgatg tttattgcaa cactagataa aacttttaaa acatttttaa gtttaggagc 180  
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aaccagagggg atatgggttc aaattctgcc ttataatta ctaatagagc tgttgaaagg 300  
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 tctgggtgcc gttgatacag caagatcaag atctggaaag tccatgtctca cagggagctt 480  
 gtatttttagt gaaaagagcc agaaata 507

<210> 31

<211> 418

<212> DNA

<213> Homo sapiens

<400> 31

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 gcagcagcct cccatggcac agcatctcag caattaatac aaaaaagcaa ggaagatgca 180  
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 gaaggatggg agagggggag ctgaccggct ttccctggag cagggagcaa cagatggcag 300  
 ctgcaaggca gggcaggcac ggggtctcaga gaaaacgtcc tattgggttc agggtttgga 360  
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<210> 32

<211> 863

<212> DNA

<213> Homo sapiens

<400> 32

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<210> 33

<211> 639

<212> DNA



<213> Homo sapiens

<400> 33

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gatattacta ataatatcac aggggtgtgt acatccctg tgatacaggg agtaatatca 240
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<210> 34

<211> 228

<212> DNA

<213> Homo sapiens

<400> 34

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aaaaccagaa gagactatgg acatttataa aacaggggta cactaaacag gtcccaataa 180
gttttaaaag attaaaaatca taaaagatgt cttctatgac cacaatag 228
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<210> 35

<211> 131

<212> DNA

<213> Homo sapiens

<400> 35

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ttacgttacc t 131
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<210> 36

<211> 533

<212> DNA

<213> Homo sapiens

<400> 36

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tgtaaacatt taaaatattt ttattgaaca atgtgggttg cacaataatg cactatgaag 480
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<210> 37

<211> 667

<212> DNA

<213> Homo sapiens

<400> 37

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gagaaatagc actttgtaaa catttaaaat atttttattg aacaatgtgg ttgccacata 600
atgtcactat gaagtcactg acttctgtgt attttctcat ttttatatat ttaaaattat 660
aacttca 667

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<210> 38

<211> 800

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (230) .. (534)

<223> a, c, g or t

<400> 38

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taaggatgca aacagaaagc tggaggtctt cagggaccta gtgaatgaag ttgtgtccta 120
tttggcttg attttgggtt tccgtgtgca tagtatgaca tgttgcccat gtttttact 180
tttgggatct gctacatcca cattactttg ccaaatgtta ggaacctgan nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 480
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnatgttag 540

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gaacctgaat atctaatca agctttaag aagcatttgc tagctatgct caatgtttca 600  
tcttactgt aataataaaa tagattgaga aaaatgcttt cttttaaata aacgtaagta 720  
aaacaatttg aaaaagtttg ttcttatcaa acagcctttt gttcccttga tattttatac 720  
aaaatagtag atagcagagg ataagttcct gataaggaat cagtattttc tagcaggaaa 780  
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<210> 39

<211> 748

<212> DNA

<213> Homo sapiens

<400> 39

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ttgagttaat gaagaatgca gcaattatta gtaaaatttg gtgctccacc ttgattcata 180  
ctgacactcc aggagtttta cccactattt cttttgtacc ttttagtgcaa atgttaatat 240  
ggtaggaatg gtaaatgaca tcttttagtat tattataaaa aatcgttttt accctgtata 300  
ctctttgaga ctacacattg agaattgctg atgaagggtt ttttaattat cataagcact 360  
gaaaagattt acttaattca ccaatttctc ctgaatattt gtttatataa aacaagacta 420  
tggtatatac cctacctttt tattaatggt agagacttag gaaaattaat ttctaagaac 480  
tagccaggat atttggaatg tgaataaatc atatatccag aaaaaagctt tagaagattg 540  
tctatggatt gaaagtccaa acagctctca tttctattat actgttcttt ttcгаааааа 600  
ttaccaattt tatgtggtat ttatgattaa acataacca tgtaatttaa catttttaatt 660  
gtcactttta catcataggt attaaagatt agcattttta ttgtctgtat tttaaagctc 720  
aaagaataac atttaggtcg ggtgcggt 748

<210> 40

<211> 612

<212> DNA

<213> Homo sapiens

<400> 40

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ccccagaatg atagaggact acttggtgct agatcagcat gctgtgtggt gctggagaag 180  
gaattcattt cgggttaggc aaaagccaag ctatctgagt ttatactaca taaatttttt 240  
catgacaaga gttgaggtca atgttttgaa gtgataaatg ggtgaaggta aatggctgta 300  
tcaaacaatt atcaggttcg gaagactaag gaaatcaaca gaaacaagta aaaacgcact 360  
gcgtttgctg acacaataaa tattgctgcc taataaaaaa gagctgagag aggggtgtatt 420  
atgatgtcat atttatgggt tgctgtgttc attgatgac ttttagtaaa taatttggtg 480  
aaaagaagct ttcagtttaa attttgactc agttgtagat ttacaaatgc agtgtgtgtg 540  
tatgtgtgtt taactcttct ttgttatttt ttcttatctg tgtaattgtga gtgaattatt 600  
ttatcttctc ta 612

<210> 41

<211> 234  
 <212> DNA  
 <213> Homo sapiens

<400> 41  
 tagattttaa agtcaattat gaattggcta aggggattgg agaactctgg catgtaatac 60  
 gcctctcatg cttctatttg ttaccaaatg tctggaatga gaaagtgtcc atgatgggaa 120  
 atagcccaca gaagtacat accattatta aaccgaccag acggaggccc taggtcactg 180  
 ggatcacgagc aaactgtgct ggggttcagt ggggtgggta ggaggtctggg gaga 234

<210> 42  
 <211> 823  
 <212> DNA  
 <213> Homo sapiens

<400> 42  
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 gccacagaaa gtaccatacc attattaaac cgaccagacg gaggccctag gtactctggg 180  
 tacgagcaaa ctgtgctggg gttcatgtgg gtgggttagg aggctgggga gacgatgaca 240  
 ggggatgtgc agacagacaa ataaatccga taataaagca gaagctcaga actgtccaaa 300  
 atgatgactg aaagccagca gcccaaggag aggctgtctt taacagccag cccccaacgc 360  
 ttagggtctg gctctgcacc aacctgccct agtgtctctg ggagggaacg taaacagttc 420  
 agcgctttct atttaactgc aaagtgtcga tcttctgagt caccgaggca aagaagcagg 480  
 ctggaaagta gtaataatcc aatccaacag aattatctgt tgaacagaaa atcccccttg 540  
 gaatttgtgt ccttggaacg ttccaaatgg aaaatgagag ttttcaggtg ggaaagcaag 600  
 gcattgggtt atgagtcagg gtgactctgc gtttgcatag agggccgcag aaaagcagat 660  
 tatgttaacc ttgaaattag ccaggagcga atggcaaatc tttgttaaca agcttgaggat 720  
 ccacgataaa ttttaaaagt gcaccgcaat gacgatctgt aataaatctt ccgttgccct 780  
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<210> 43  
 <211> 589  
 <212> DNA  
 <213> Homo sapiens

<400> 43  
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 aaaggacagt cttaaagtta tctcattagt ttacttccct tcaaaaacac accacatagc 120  
 tatgactctt aaagttgttt gggaccacaaa atgagttacc atctaattac cctgtaattt 180  
 tcatcacaat cagatggggtt acttatttga ctttttctcc taaagctctt cttggaatat 240  
 gtcaacaatg tgtaactaca gggataaatg ccaaggaaga agcttttctt cctttgagtt 300  
 acaggctctg tcttggtaaa attacttacc ttggtttgtt ttgttttttc tctttatttt 360  
 ttttccaggt taaatctgat agagcagata tacaagttag cccttggggtt ataatgata 420  
 aatggaaaaa ctttaattcaa aagtagaaaa tgaacagata ggtaccttgt agatttaattg 480  
 atttttaaaa gttatttttg tgctgctgtt tgttatctcc ctctcgcgtt ttgcatgaaa 540

agacatagtt taagtatttt attaagagaa gattgaggcc aggcacagt

589

<210> 44  
<211> 649  
<212> DNA  
<213> Homo sapiens

<220>  
<221> unsure  
<222> (134)..(165)  
<223> a, c, g or t

<400> 44  
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ccatctaagc aacagcccttt ctgccaataa taaggtagaa gccttcattc cttctctcctt 120  
tatctctccc actnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnggcaa ttgcaggtat 180  
attcttggtt ctttttttta tcagagctca tttagggtta ttgccattt ttctatctaa 240  
gaaaagagct actggccaga ggatattgat attacttcta aaatgaatgc cattcttgac 300  
tgctagtcct ttgaaaaatt aacttttagt tttttgggtc ttgcaaaagc ttgttgattt 360  
ttaaattggg tgtagaaagt tttcttagag ttgtagaatt tttgagttgg aaaagacctt 420  
gggagtcaca tagtttcttt aataaaattc ctgatagatg attattcaac ttgattaaag 480  
tagtactatc tgctctgaat taaaatttag aacaaaaatc acctgccgtg ccactacaca 540  
tgacataaat caactgctaa attatgattt gtttctctcc agttactttt ccaattattt 600  
tacatataca aatattttct tggtagaaga acaaaagtgg cactatttca 649

<210> 45  
<211> 273  
<212> DNA  
<213> Homo sapiens

<220>  
<221> unsure  
<222> (115)  
<223> a, c, g or t

<220>  
<221> unsure  
<222> (160)  
<223> a, c, g or t

<220>  
<221> unsure  
<222> (196)..(197)  
<223> a, c, g or t

<220>

<221> unsure  
<222> (205)..(206)  
<223> a, c, g or t

<220>  
<221> unsure  
<222> (209)  
<223> a, c, g or t

<220>  
<221> unsure  
<222> (213)..(214)  
<223> a, c, g or t

<220>  
<221> unsure  
<222> (234)  
<223> a, c, g or t

<220>  
<221> unsure  
<222> (238)  
<223> a, c, g or t

<220>  
<221> unsure  
<222> (243)  
<223> a, c, g or t

<220>  
<221> unsure  
<222> (255)  
<223> a, c, g or t

<220>  
<221> unsure  
<222> (259)  
<223> a, c, g or t

<220>  
<221> unsure  
<222> (269)  
<223> a, c, g or t

<400> 45  
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tggttgactg tgtgtgaatt tcattgtatt tatcctgttg gaattcattg agctncttaa 120  
tttcagggat ttaggatttt catcaaaactt ggaaatcttn aggtcaatat ttctttgtca 180

tttctttttc tttttnttt taacnnccna ggnncttaag ggcaatatatt tttnaatntt 240  
gtntactatgc attcnctcnc ccttcccent ttt 273

<210> 46  
<211> 716  
<212> DNA  
<213> Homo sapiens

<220>  
<221> unsure  
<222> (700)  
<223> a, c, g or t

<400> 46  
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aatagttctt aggttttata gctgatactt tgnatcatgt taattatggg tgacaaccct 120  
gaacaacac ccaagcatc tatcagcacc tatccatcag tgattaactc agagtaggct 180  
ctcaatgtat ttttgaata aatgcttacc atcgattata atgaagatca caaattgtgc 240  
tggaacctaa ccagttatag attccttgca tggatataag aatgataaga gttacaatta 300  
aagtgttata acaactgagtt gtgtgtccta atccgaaagt attctgtctt ccataatagta 360  
gagaaaattt tttgtgatgc agttacagtg cttaataaag ctccatcatc ggaactctc 420  
agttaagtct tattgttgc attattgggt taaattaaat ctgaatatta gttcacatat 480  
ttaagtggcc cttttgttat ccgttttcac tcttcagatt tttttctct cattttttgg 540  
ggggaagact cttcttttt tcaatgctgc tcaagatttt ctatttttta aattagagaa 600  
ttttctatta ttgtgtctac cttccttaga tgataaatca gttagcaagct gactgggttt 660  
tatcaaaatt gatgttctga tattggagaa cacagaactn ttagatgta acctgg 716

<210> 47  
<211> 97  
<212> DNA  
<213> Homo sapiens

<220>  
<221> unsure  
<222> (94)  
<223> a, c, g or t

<400> 47  
cttgcccttg caagttttat ttttggagct cttatgagta cgtctatgat ctattttgag 60  
tatgatatga ggtaggggtc catttcattc tttngtg 97

<210> 48  
<211> 699  
<212> DNA  
<213> Homo sapiens

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<400> 48
gaactttttt tttccatggt tcttgatcct atctgttgat gagggctgga agttcaagaa 60
agataaaatt taaattattt taacctgaaa aataaagcca gagaacttga ttgaaaagca 120
ccocaaagac tegtgtgaaa tctgcattgc aaatactgat ggaaccttat ccttgttttc 180
tttgttttat gcattacttt accatcttgc catagtcat agctttgcac ctatttagtg 240
tacagcataa aatcaggaaa ctccactttg aagggatcat ggttattctt aattagaatt 300
tgtaaattta gccttaagta ttttattttt tgaattgttt tatgataatg tgaagtaaac 360
catgccatta tttctcattt ttcccttggt taacaaatta ggataacaa atcttcaaat 420
tacctttaag gcttgaatac attcaaatct tttatccgtt agtcaagtta tttcataaac 480
ccaacattgc ctctgaaatg gctttacaca caaagaggat tttaccataa aatgcttctg 540
gtgtttcatt ctctcttgat tttttgtagg ggaagggggg tggagagtga gcagagtata 600
aattaatttg gatgggtgtg gtttcaaagt agcattccat gtaattctgc agaaagtatg 660
ataaataaga aaatggggcca ggcattggtg ctcatgccaa 699

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<210> 49
<211> 1364
<212> DNA
<213> Homo sapiens

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<400> 49
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ctaggcaaca ggtaattgtt tagatagtga atgggtgagt atttgatctc aaagaaatca 120
atatgtgaaa taggatgtac ataacttcag aagttgacct gtgaagctcc tattttcttt 180
ggctggctcat taggctgcta agtagaatga ctgacttttg tatggttttc ttccacaata 240
gtgctttttc ttctgggttcc ctacctatga acttttctct aactttccta caagttaaaa 300
aagttgttat ggctctctca tacagtagac attcaattct ttgttaacct gaaaaaagt 360
tcagaagttt aaatttgaa gtaacaggat tgggtccaaa tatttgttgt tgcctcatgt 420
ttaaataagc gacattggat tatatcagca ctgggataat tccattagg tattatgact 480
gcaatttaca tgcaattgga aattagtgtat tgagagggaa acagattgcc aaattatctt 540
ccaaaaaggt actcccaact ccatatcctt gctaataaca agtattataa ttatttaaa 600
tcattgccaa ctctgactgc aaaatattgt ctgttcttaa tgttcatttc tctattgtg 660
aaggcgaaact ttttttttcc atgtttcttg atctatctg ttgatggagg ctggaagttc 720
aagaaagatt aaatttaaat tattttaacc tgaaaaataa agccagagaa cttgattgaa 780
aagcaccoca aagactgtgt tgaaatctgc attgcaataa ctgatggaaa cttactctgt 840
ttttctttgt tttatgcatt actttaccat ctggccatag tcattagctt tgcacctatt 900
taggtttacg cataaaatct aggaactcca ctttgaaggg atcatgtgta ttcttaatta 960
gaaattgtca atttagcctt aagtatttta tttttgaaa tgtttttatg taatgtgaag 1020
taaacatgac cattatttct ctttttccc ttgggttaaca aattaggata tacaattctt 1080
caaattacct ttaaggcttg taaacattca aatcttttat cgttagtgca agttatttca 1140
taaacccaac attgcctctg aaatggcttt acacacaaag aggattttac cataaaatgc 1200
tgtgtgtgtt tcatctctct ctgatttttt gtagggggag ggggttgagg agtaggcaga 1260
gtataaatta atttgatagg tgttggtttc aaagtgcatt tccattgtaa tctgcagaaa 1320
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<210> 50

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<211> 235  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> unsure  
 <222> (35)  
 <223> a, c, g or t

<220>  
 <221> unsure  
 <222> (153)  
 <223> a, c, g or t

<400> 50  
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 cattcctggt ctgttgggtg attgacacat acaagacgcc agcggctcctg agagtcagg 120  
 gccttcctgg accccttggg gagcggagga gcntcctacg cggtctggaa gaattccat 180  
 gctgatttgt aggcggcctg gccaggtgct tcggagactc cagcagcatc gaagc 235

<210> 51  
 <211> 412  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> unsure  
 <222> (388)  
 <223> a, c, g or t

<220>  
 <221> unsure  
 <222> (404)  
 <223> a, c, g or t

<400> 51  
 ctctgaaatg gtctccttgg atcatgggca gagatggtac gatgggatcc cacccgaggg 60  
 gtcccgccg gtctcacgg ggcctgggacc agctgctctt actctgtttt tctacctttc 120  
 tcagccactt ggaggaagag agaattttgt taccttttac aggcgaagacc actgaagccc 180  
 tctggtcatc agcaggaatg caggggcccgc tatggcaggc cggactccag gtcaggccct 240  
 ggggcagtga ggaagaaggt gcatgccagg agctgcctac gcgttctgga agaattcaca 300  
 tgctgatttg taggcgcctt ggccagggtg ttcggagact ccagcagcat cgaagctcag 360  
 atactctggg ggaagccagt caccatttnc cgagggaagt tcanctaccc ca 412

<210> 52  
 <211> 503

<212> DNA  
<213> Homo sapiens

<400> 52  
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aagagaacat tcattccagtc agtcaacata catttctctga gcaccagatc tggggccaggg 180  
gcagggtgta gaagatctgt caggcacagg cctggccccc agaggcacag tgttttgaag 240  
ggtaggtcaa ccctgagtggt tgggagggca gtggggccta tttattgggg gcacagagga 300  
ggaaggctta tccttccaag gaggtgaaat gctagtaaga gtttaagtga gtaagggtgt 360  
ttccacgaaa gttgtttttt agctggagaa agtgatcagt ttggattctt acacgtacta 420  
gatgctcagc gaggccttga atgggtggc acgtgtgatcc tcaaaccaac 480  
atggatttcc tgggaacttg tta 503

<210> 53  
<211> 597  
<212> DNA  
<213> Homo sapiens

<400> 53  
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acctctgcat gggctcccaa atcctgcctg gctgcttctt gtgggtggctg gcaagcctag 120  
aagagaacat tcattccagtc agtcaacata catttctctga gcaccagatc tggggccaggg 180  
gcagggtgta gaagatctgt caggcacagg cctggccccc agaggcacag tgttttgaag 240  
ggtaggtcaa ccctgagtggt tgggagggca gtggggccta tttattgggg gcacagagga 300  
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gatgctcagc gaggccttga atgggtggc acgtgtgatcc tcaaacctac 480  
atggatttcc tgggaacttg ttagacatcc aaattcttag gctctatccc taatcctctg 540  
catcaatact aagagatctc ttttataaaa ccccttcagg tgattatgac gccgcct 597

<210> 54  
<211> 482  
<212> DNA  
<213> Homo sapiens

<400> 54  
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cccccttttt ttctctctgag gatttaagat agaggcactt gccatgcatg attgcatttc 120  
atcctcacga cagccctgca aagtagggaa ctgaagtttg gggcaagtca catagctagt 180  
gtgatgtgga gtcaggatcc caacttgcta tccttatctg ttgcttttta tattttctat 240  
ctttatctga tgctcttctt caccactcat tcttttccca acatacctag ctctttcatg 300  
cctccaagct cttccatgac ctatccctga agcagttata tccactgcag gatattgtctc 360  
tgccaagatc tgctgatctt ttatggccca gtttagctga agtcttactg ctgtgggtga 420  
cttctctaac atgctctgca gaagaggcaa agcattttctc atttttttgg tgcattgtct 480  
ct 482

<210> 55  
 <211> 640  
 <212> DNA  
 <213> Homo sapiens

<400> 55  
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 taagaaccaca ttctttggaa ttcaaatgtt gggtcttgga catattgggt atgtgacttg 180  
 aacatgttac ttatcttctc atcctgaatt ttctcttctc agaatggagt tgtgagtgtt 240  
 aaaatgagac catgtaagta agacatttag catagtgcct agcacatagt atgcacttga 300  
 taaagggtgct gaaaaccggg ggatcctgga gtaaaagacta ggcttggtcc aggacagtga 360  
 tctccgaaa cccctctca ttgttttggt aatgcgtagg cagtgtatga gtctgttagc 420  
 agggagatta taatcttggt tggaaagtag aattacatcc acattaaaca gtcagagaac 480  
 tgtgaaggta gtttgaccac atccaataat aagatgtaga gaagagaaga cagctcaatg 540  
 aaggcttag ggaggaggtg aggcttgaaa gttaaataagg atttgggttt taggagaaa 600  
 gaataccagg agaccatatt aagaatgact taggccaggt 640

<210> 56  
 <211> 256  
 <212> DNA  
 <213> Homo sapiens

<400> 56  
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 ccatagcagt ataatttata atagtagaaa cattcagatt ctaataagag tggaaatgga 120  
 taataaatc ttgttataat ttgtaacaat ggaaatatta acaataatga aaataacaa 180  
 gccagacatg gtgcctcacc tgtaattoca gtgccttggt aggaccaagg tgggaagatt 240  
 gttcaagccc tggaga 256

<210> 57  
 <211> 305  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> unsure  
 <222> (76)  
 <223> a, c, g or t

<220>  
 <221> unsure  
 <222> (79)..(80)  
 <223> a, c, g or t

<220>  
 <221> unsure  
 <222> (84)  
 <223> a, c, g or t

<220>  
 <221> unsure  
 <222> (89)  
 <223> a, c, g or t

<220>  
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 <222> (93)  
 <223> a, c, g or t

<220>  
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 <222> (97)  
 <223> a, c, g or t

<220>  
 <221> unsure  
 <222> (183)  
 <223> a, c, g or t

<220>  
 <221> unsure  
 <222> (279)  
 <223> a, c, g or t

<400> 57  
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 gatgcccccc attttacaga tgaggccagc aggggttgaaa gcaggttagag aggtgttggg 180  
 ganatgtcat gccagggtct gctgtctcct gagtgcacag cctttctgca aaacctcctt 240  
 gctcctccag caaagctggt tcctccctgg ggaggggana gtactgattt ccgccttttg 300  
 agggga 305

<210> 58  
 <211> 236  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> unsure  
 <222> (14)

<223> a, c, g or t

<220>

<221> unsure

<222> (71)..(166)

<223> a, c, g or t

<400> 58

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnatttc tgcctctcgg 180
ggccaattcc accactccct ggaaagtgat gtgatgacct tgggcttgag tccaaa 236
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<210> 59

<211> 506

<212> DNA

<213> Homo sapiens

<400> 59

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accaccttaa caggagccat ttgttaggag tgggtggagat tggagtagat ccataagaaa 120
tgaaatgaga attggagaca gtgagtacag acatttttaa ggagttctag tataaagaaa 180
taaggtggga actgaactat gacatgtagt caagattttt tttgtatttt ttaaaataaa 240
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gttctaattg ataggggagag ggtagtttca tctccagtaa cagtgtagta atagcagaga 420
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agtagccaca ttaaaaagta aaacac 506
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<210> 60

<211> 2062

<212> DNA

<213> Homo sapiens

<400> 60

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ggtagctggg actacaggca cctgccacca tgcctggcta attttgtatt tttagtagag 180
gcgggggttc atcatctctg gccagactag tctccaactc ctgacctcaa gtgatccact 240
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attggacagg gctactttta ttctctgcta ttactacact gttactggag atgaaactac 420
cctctcceta tgcattagaa cccctctctc ttcccccacc agggacttca cccagcaat 480
ctccctgctt ttctcttttt tcattgattt cccctctata ttggatcatt ctcatctgca 540
tacaaacatg ccactgtatt ttttatttta aaaatacaaa aaaaaactct gactacatgt 600
catagttcag ttcccacott atttctttat actagaactc cttaaaaatg tctgactaca 660
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ctgtctccaa ttctcatttc atttcttatg gatctactcc aatctccacc actcctacaa 720
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agaactttgc aagctgggtt ttaactgttt tgtagctgga aattgactat gatgggaata 840
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cagagagcca gtttaccagg acaccactga ttgaaagtca ccaatgactt tcacctgact 960
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tattccctct acctgagaa cctgttatcca gacagtttca cggtctgctc ctttaactcc 1980
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```

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<210> 61
<211> 124
<212> DNA
<213> Homo sapiens

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<400> 61
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acag 124

```

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<210> 62
<211> 541
<212> DNA
<213> Homo sapiens

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<400> 62
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aaagctttaa attaaagcaa gtgattcttc aaagatttaa gtcctttacc tagcagtagt 180
ctgtgacaaat tgctacagtg ttcccaagtg gaatatggta catttgagat gacaagact 240
aggaaccact actcccgagc attttttcat tgccattaaa atgcattgct ttgcctcctt 300

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agtaaggaag tcaactgaaca tttagcatg tacatctcag taaaattcaa ttctaccaac 360  
attgtagtgt tcggcttagt aaactgaact ttaaagggtt ttctattttt gtgggattgt 420  
gaggatcaca aactactaaa acagaacaat taactctgga aaccttttga tgattaactt 480  
tattgggtga gtacagtcac ccccttttat ctgtgaagga ctggttcacg gattccacac 540  
a 541

<210> 63  
<211> 1040  
<212> DNA  
<213> Homo sapiens

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<221> unsure  
<222> (649)  
<223> a, c, g or t

<220>  
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<222> (184)  
<223> a, c, g or t

<220>  
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<222> (187)  
<223> a, c, g or t

<220>  
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<222> (189)  
<223> a, c, g or t

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ctgttaagta gaggacacat tatggtttac tttttaacct tgcttcccca gtttccctt 180  
tccttcgatt tgatagtaga atattttagg gcaggatcat atgtgggtgt tagattaagc 240  
cattgggagt agaagggaga aatggcaaga gtattttctt tcattacttt attattttatt 300  
ttccttttcc tgaggttaagg aaggggatat aaagaaatgg cctttatggt tcccacggtg 360  
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gaagcggaga gtttctgcag ctgcctagct agggctgcag tattatgtaa tgccttcttg 600  
cataagtcag aaaaacacaa ttctgggtaaa ttttttaatt taaaaaana agaaaaaaa 660  
actcttttaa agcttgagag ctgcccctag aggtctttct ttgaaacca gtacaaaaaa 720  
cagactttga tttttttatc cttaaatat aatgatataa ttctactttt tttttacagt 780  
gacttaaca atctgaagaa cagaacttac acctttccta ataaaaactg caggttttgt 840  
gttaaattta aacatatacc taagggtgaat gaatttagta gaattagcag gttattcaca 900

gtttcttctc agcactttca tcacatgggc tgaaatcctt ccacattaga cttacattaa 960  
gtacctcttt ctatttgggt tacatttgggt aacttgactg caggtaaccc ttatccatgg 1020  
tgcattttgt ttggtctcca 1040

<210> 64  
<211> 311  
<212> DNA  
<213> Homo sapiens

<400> 64  
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ttgattctgg cacttaactc ctgtgtttac taagtttgggt atagctggat tttttttttt 180  
tttnggnncn ctagaagcag gagagggcag agataggggc agacttgact tagcaagggtc 240  
ttaactgtta acatttttca gccagagag ctgccttgct ctctaaaaca gttacttgctc 300  
ctggttctact c 311

<210> 65  
<211> 554  
<212> DNA  
<213> Homo sapiens

<400> 65  
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tgattctggc acttaactcc tgtgtttact aagtttgta tagctggatt tttttttttt 180  
ttttgggtcac ctagaagcag gagagggcag agataggggc agactttgac tttagcaagggt 240  
ctttaactgt taacattttt cagcccagag agctgccttg ctctctaaaa cagttacttt 300  
gtcctgggttc actcttccat gaggtaggga cagttacctt tgtgtgcagg tggacgttcc 360  
tttcaccctc ctctcttccg gtttccctcag agccaggact gtctccagtt tggctctcct 420  
gctgaagggg aagtgggtcca ggcctggaac cgtctcaaga cagtgcctgca ctggccccag 480  
tccatagagg ggtcaactat gctggctgga ctggctgcct tgttctctggc ctaggactta 540  
gcttcataac tacc 554

<210> 66  
<211> 563  
<212> DNA  
<213> Homo sapiens

<400> 66  
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atgccccccc ccaaatttga ataataaagg aattagccgt ttctgcaaga tgtgttgaa 180  
tcatttatac aactatctgg gtttgctttg gaaatagctc ttgattgct ttatcaattt 240  
ccttttagagt tatcttttca gggttgcctac tttctcagga aacaatttgg ataatttata 300



cttttcaaga aaatcaacca ttcccttttt ctgaatatat tgctatatag ttgtacatag 360  
tattttcttat aatttttcta aaactcctaa tattgtcaat agtgcagttt tagttttctga 420  
cgatatattt taccttccct ctcctcctca gatgagactg gctgtgctgt ttggcctac 480  
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aaaaaatatg aaattatata gga 563

<210> 67  
<211> 658  
<212> DNA  
<213> Homo sapiens

<400> 67  
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gatagagtga gtacatagag tacatagaag agtgagctct gaaagaacct tcacatggac 180  
cccagaaaga ggagtactca acgcctgctg cacagaaggc atcagcagtt aagtactggc 240  
tagaaaaagca gagtccatca aaggagagga ccacagtggg agctgcctgg taagtaccac 300  
tgtccccctt ccttcttttc tccctcccca gctcactgga ggagctaggc ctcaggaagc 360  
tggggaagaa tggggagaat tcacctcggt gacagttcac gccctccctc cagctccaac 420  
agctggagtc aaaggaaaagg aagagtgacac ctatctcttc ccattccaa gtccttttag 480  
tgactagctg gacatgctct ggagaagagc aaaatgaggc tggaatttaa acaataccag 540  
actttctaaa acacaatgcc tgggaagtta tgtgaggcat gtgagacatg aggggatgga 600  
aaagggattc aacagagcat agttgaaatc aatgatattaa aaaaacaaaa aaactggc 658

<210> 68  
<211> 468  
<212> DNA  
<213> Homo sapiens

<220>  
<221> unsure  
<222> (6)  
<223> a, c, g or t

<220>  
<221> unsure  
<222> (8)  
<223> a, c, g or t

<220>  
<221> unsure  
<222> (74)  
<223> a, c, g or t

<220>  
<221> unsure

<222> (91)  
<223> a, c, g or t

<220>  
<221> unsure  
<222> (228)  
<223> a, c, g or t

<220>  
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<222> (231)  
<223> a, c, g or t

<220>  
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<222> (236)  
<223> a, c, g or t

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<223> a, c, g or t

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<222> (313)  
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<222> (324)  
<223> a, c, g or t

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<221> unsure  
<222> (406)  
<223> a, c, g or t

<220>  
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<222> (414)..(415)  
<223> a, c, g or t

<220>  
<221> unsure  
<222> (420)..(421)  
<223> a, c, g or t

<220>  
 <221> unsure  
 <222> (439)  
 <223> a, c, g or t

<400> 68  
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 gtgggatagt ggccatgaaa tccatgtcat ttgaggaggc acaaggtaag ttcagaaaaat 180  
 tcagctgtat gagaaaaatgc ctcttgacaa acactggctt aaaaaaantt ntacanttta 240  
 gtgtntttgt acactcactt caaaacttgc ttctctaaaag agaagettcc ctgaaccacc 300  
 caagcagaag gngtacttc ctcnattcctg ggtgttacca ctgtattgag gatacccctc 360  
 cattagtgcc ctgtcatgc tggttgcacat gttaaactcac atgtgntctc ttcnntctcn 420  
 naatatcttg cctaaatcnc ttatatcggt aaaggcactg aggttctg 468

<210> 69  
 <211> 315  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> unsure  
 <222> (306)..(307)  
 <223> a, c, g or t

<400> 69  
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 tttttttctc agagagaaat gaagtattat tggaaggatc tatgaaacta ttagactaga 180  
 ccaaatTTta actagataag aaatttagtt catttgattt tctggtagct ggcaagtgga 240  
 agggagaggt gaacaattaa attggctgta aacaaaagta aaacattatg ttttttctta 300  
 atactnnata gtgag 315

<210> 70  
 <211> 217  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> unsure  
 <222> (36)  
 <223> a, c, g or t

<220>  
 <221> unsure  
 <222> (91)

<223> a, c, g or t

<220>

<221> unsure

<222> (164)..(165)

<223> a, c, g or t

<400> 70

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agaagctctg tgctcaattt ggcaaaatga nttaacaat gagaattact catttgattt 120
gcattttggg ttctagcttg gggattataa atgcaatttt cagnnttttt ttgttttttt 180
tccaattttt ttgtatacca tgatttttcta ttgactc 217
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<210> 71

<211> 283

<212> DNA

<213> Homo sapiens

<400> 71

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taagtcaaca ttttggcaaa taaagaacag agatatttaa gcacatgatt caataaaaaa 120
ataacttgct tatttttggg ttgttgtaat gtcttattct gtttttacag tcaattatag 180
cctcgtatct tctgctacct ggggtggcgc ctgttttccct attttataac tgtattttata 240
tagtaacatt ttagtttttt gttttcttat atctatatta gat 283
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<210> 72

<211> 296

<212> DNA

<213> Homo sapiens

<400> 72

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ctggattccc tcagacacat atttccctcc tcaactaaat tttatgaaga ttttttatta 60
aatctgtatt aaagggtttac ttccattatga tgaagtaaat gtccacagtt ggacottatg 120
gagatttaag attacatttt atttcttgta acatttttgg ttgctggttt ttctattngc 180
ttctattctg tggtcacata acaaattctg tgctcatagct gtttacacta tggtcagaca 240
gatcagggtga ttgctcagtt ccatTTTTTt cttggagact tcttttaaaa cctgtg 296
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<210> 73

<211> 715

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (407)

<223> a, c, g or t

<220>

<221> unsure

<222> (411)

<223> a, c, g or t

<220>

<221> unsure

<222> (414)

<223> a, c, g or t

<220>

<221> unsure

<222> (421)

<223> a, c, g or t

<220>

<221> unsure

<222> (695)

<223> a, c, g or t

<220>

<221> unsure

<222> (698)

<223> a, c, g or t

<400> 73

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caatccttca aagagcatct ttctgtaaga tttattttgt ggacattcat tctccaggga 180
ggcttttgga ctcaaaactcc tgagatttga gaaactctta gctgcacatc ggtgtcccg 240
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ntttgtgtg aattagaaaa aggggcctca tcaaccaggt gagtaggag atgcagccag 480
cgccaggacc tgtggctctg atgagcgagt agaggcaggg tttagctcca acctgccttt 540
tgtggctact tgtctagtga aatgcacatt ctgggcagtg gtacatgtgc tctctgtctg 600
gtgcacatcc cgatacctct ttggggaccg ctttctattg gtggttcttc cttcttcaaa 660
ctctccctcc catgatctg aatttcatat cttanaanaa aaggaaaaat gttag 715
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<210> 74

<211> 330

<212> DNA

<213> Homo sapiens

<400> 74

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agttccagca gttgggaatg taatattctc ttatggataa agtagattaa aagtttaaat 180
taaaatacgc tgttaaatgt tgttacttct ctttgtgtac agtagtagta gtatactttg 240
annagttgag ttccataggc ttaacttttg ttgtaaaact gaatactaac taaggggacta 300
ttgaaatgtn agcntttgtg cagaaagtac

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<210> 75

<211> 249

<212> DNA

<213> Homo sapiens

<400> 75

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ttaaactttc aaacctgttt ggggaagaagg cttggaacaa cagtggtgtt gggctcttg 120
aagtaaatct tattttaaagg aaatagacaa aagcttaatc atgtttaatt tgttaacatta 180
taggtaagac tgttggttgc tgttgaatg actctaaaaa agaatagaga atattttttt 240
ccttagaag

```

249

<210> 76

<211> 913

<212> DNA

<213> Homo sapiens

<400> 76

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agtagctggg attatagaca cctgcccac acacctggct aatttttgaa tttttggtag 180
agatgggggtt tcatcattga acctggaact tctaaggaaa aaaatatctc ctattctttt 240
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taagctttttg tctatttctc ttaaataaga ttacttcac aagaccctaa cccactgttg 360
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caagtctcag gtattttgat cctggcttac acaagctcaa attgaaggag ttttactgca 480
gaagcccatt cagccaattt atgcccctgt tccccactgg gaagcaaaaga tgatttgggt 540
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actgatttgc taacagaagc ccacatgctt cttttagtcc atttttaata accctctgga 660
aactacagag tggaggggaaa catacagagc actataaaac aaacagcact ttgactctg 720
gaatcattta catttttaag gtaaatataa ttaaaatgtg aggacataca attaaaatcc 780
aggaccctgc cttcctacct ttatttaaca atatttattg aggccttact gtgcctctatg 840
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gggaatgtgc ttg

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913

<210> 77

<211> 565

<212> DNA

<213> Homo sapiens

<400> 77

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caaatgccag gtcaggcata agttgcactc taccacatc accaagtgtc cccaggaaag 120
cagaagtgtg tcctcttccc ttccagggtc tcacttctg ctgcacatgg gctagggtcg 180
aagagtcca gtgggagggc cacagccgtc ccagggaata gagaagtggg agcaggcatg 240
gggagaccaa ctgtctgtac ccatctcttc tctgtcctgg tagaggttcc tcttctgtc 300
tgtcactgca ggtcagagag caggcatggg gacagcctca cccctctctc gtaccacca 360
tctgccccca ctctccccca ggtctcatgg tgggtgcatc tccctccatg ggggtgtgtg 420
actttgggca agttgtgaac tctctggggc ttggttccct gctgtgtaaa tgggtagtag 480
aaaagaaatt gaccccataa ggtggttagt cgaagtcaat gagttcatcc agtaaatgtc 540
ttgacagaga gcttggtaga ttttt 565
```

<210> 78

<211> 725

<212> DNA

<213> Homo sapiens

<400> 78

```
cggggctaga aagccgaagc tgagattcaa tcccagaggc cagctggatt tgggagacct 60
caaatgccag gtcaggcata agttgcactc taccacatc accaagtgtc cccaggaaag 120
cagaagtgtg tcctcttccc ttccagggtc tcacttctg ctgcacatgg gctagggtcg 180
aagagtcca gtgggagggc cacagccgtc ccagggaata gagaagtggg agcaggcatg 240
gggagaccaa ctgtctgtac ccatctcttc tctgtcctgg tagaggttcc tcttctgtc 300
tgtcactgca ggtcagagag caggcatggg gacagcctca cccctctctc gtaccacca 360
tctgccccca ctctccccca ggtctcatgg tgggtgcatc tccctccatg ggggtgtgtg 420
accttgggca agttgctgaa cctcttttgg taagaggcac catgactgca acttcattct 480
ccctccatg ttggggtctt ctgtcttccg catcctgtga aagggtcaca ttctgcaata 540
ttttagggtt tcattaaaag gtattttatt gtggctgcct taaagacagc ctttgacaaa 600
gtgaaaattc ctcccgctat tagaatgata accactgaac aaagtgtccc caagtacatt 660
ccacctctg agcttcacca ggactctggt gaaaggtgct cctatgccta ttccacagaa 720
accca 725
```

<210> 79

<211> 723

<212> DNA

<213> Homo sapiens

<400> 79

```
cactaacccag gcacccagct catctcaact gctcccgcg gcttctcaga gcagaaacca 60
tgctgccagc actgggaggg agaagagcag ccttgccagc tctgcttggg ctcaggcctc 120
tgctcagggc tcctgggaga ggccaacggg aagctgctgg ccctgcgcac ttgtcagcaa 180
gacccgagcc aggaacctgt tcaggtgctg agcagacaca cgagacaatg catttatttg 240
gggcacactc attttatcgt ggttagatacc ctacgtgaaa ggaaccagta cagagaaagg 300
acaaggaaag aagccagcat ttatgagggc cagctgcatg ctgagcacac acagctgcct 360
```

tgcaggatgg gcactgttat cccattgcag agatggagaa gccaaaggctcc ccttggacag 420  
 tggagttata tccaactgtc caccacctgg gggtaggtta aatattggga gagccataca 480  
 atgggaatacc acgtagctac ttcagggggac acgacattgc taacacttcc ccataccttt 540  
 aaataatacat taggtgggga aaaaaaacag tatgaataat tccattattt taaaaatgtt 600  
 ctattgcata tatatttata tgttttctac tgtatatatg catatatgtg taataaaaaa 660  
 gaggtagaaaa aattaactctt aaaagaggta tactaaaatt taacagtgat ttttcataat 720  
 tct 723

<210> 80  
 <211> 958  
 <212> DNA  
 <213> Homo sapiens

<400> 80  
 caagaaatag atacaaggct tatattatat tgtgcctaac acggccagca cttgacatcc 60  
 actgtgacga aaaccttaca caatccaatt aatttggggg ttgtggggag gttctaggag 120  
 ggggacacac ggagccgcag atgtgaataa ctgctagatc caagtgtccc gcttagatgc 180  
 tggccgcagc ctacaggcga gacgccacat gtcaggcccc gaaaggtgtg gcagacacta 240  
 accaggcacc cagctcatct caactgtctc cggcggcttc tcagagcaga aaccatgtct 300  
 ccagactgg gagggagaag agcagccttg cagcgtctgc ttgggctcag gcctctgtct 360  
 agggttcctg ggagaggcca acgggaagct gctggccctg cgcactgttc agcaagacc 420  
 gaggcaggaa cctgttcagg tgctgagcag acacacgaga caatgcattt atttggggca 480  
 cactcatctt atcgtggtag ataccctacg tgaaagggaac cagtacagag aaagacacag 540  
 gaaagaagcc agcatctatg agggccagct gcactgtgag cacacacagc tgcccttgagc 600  
 gatgggcact gttatcccat tgcagagatg gagaagccaa ggtccccctg gacagtgtgag 660  
 ttatatccaa ctgtccacca cctgggggta gggttaatat tgggagagcc atacaatgga 720  
 ataccacgta gctacttcag gggcacacgac attgctaaca ctccccata cctttaaata 780  
 tacattaggt ggggaaaaaa aacagtatga ataattccat tattttaaaa atgttctatt 840  
 gcatatatat ttatatgttt tctactgtat atatgcatat atgtgtaaaa aaaaggaggt 900  
 agaaaaatta atcttaaaag aggtatacta aaatttaaca gtgatttttc atatttct 958

<210> 81  
 <211> 510  
 <212> DNA  
 <213> Homo sapiens

<400> 81  
 acggcgctga ctacggcgt gactacgggt gatttactaa aataatgcat gtaaagcata 60  
 taggatagag ttgagcacat agtacacatg atgtgttagt tggtatcaac ttttctattt 120  
 tgaggtgcaa ctaagggatt cttgcaggaa tacctagttt ctccacattt attccagctc 180  
 tgggttaatt ccaatgtgtg tgggtcaaca acctctccag gccagggtctt ctgctttgaa 240  
 ctttgaataa gcaaattaaa aggagatggc ttgaaaaata ttatttttat aaaacaatgc 300  
 ccagaggaat tgagtggtct aaagacacca gaaaaaaagg attccctaaa gtaacagcaa 360  
 atgatcaatt tttttaacca ttcttttatt ctttccacca atgtatatgt aatgctaaca 420  
 ctattagatg ctagagtacc aaagatgtgt acagtatcat tgccctaaaa atgatctatg 480  
 ttaaggggca agagaagaga acatataat 510



<210> 82  
 <211> 519  
 <212> DNA  
 <213> Homo sapiens

<400> 82  
 ataataatca tacctaccta ttcacatagtat cgttgtgtgg atttactaaa ataatgcatg 60  
 taaagcatat aggatagagt tgagcacata gtacacatga tgtgttagtt gttatcaact 120  
 ttctattatt gagtgtcaac taagggattc ttgcaggaat acctagtctt ttccacatta 180  
 ttccagtcct gggttaatttc caatgctgtg tggtaacaaa cctctccagg ccagggtctt 240  
 tgctttgaac tttagaatag caaattaaaa ggagatggct tgaaaaatat tatttttata 300  
 aaacaatgcc cagaggaatt gagtgtgcta aagacaccag aaaaaaagga ttcccttaaag 360  
 taacagcaaa tgatcaattt tttaaccat tcttttatc ttccacaaa tgtatattga 420  
 atgtaaacac tattagatgc tagagtacca aagatgtgta cagtatcatt gccttaaaaa 480  
 tgatcatgtg taaggggcaa gagaagagaa acatataat 519

<210> 83  
 <211> 384  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> unsure  
 <222> (83)  
 <223> a, c, g or t

<400> 83  
 ataataatca tacctaccta ttcacatagtat cgttgtgtgg atttactaaa ataatgcatg 60  
 taaagcatat aggatagagt tgagcacata gtacacatga tgtgttagtt gttatcaact 120  
 ttctattatt gagtgtcaac taagggattc ttgcaggaat acctagtctt ttccacatta 180  
 ttccagtcct gggttaatttc caatgctgtg tggtaacaaa cctctccagg ccagggtctt 240  
 tgctttgaac tttagaatag caaattaaaa ggagatggct tgaaaaatat tatttttata 300  
 aaacaatgcc cagaggaatt gagtgtgcta aagacaccag aaaaaaaggn ttcccttaaag 360  
 taacagcaaa tggttcaatt tttt 384

<210> 84  
 <211> 519  
 <212> DNA  
 <213> Homo sapiens

<400> 84  
 ataataatca tacctaccta ttcacatagtat cgttgtgtgg atttactaaa ataatgcatg 60  
 taaagcatat aggatagagt tgagcacata gtacacatga tgtgttagtt gttatcaact 120  
 ttctattatt gagtgtcaac taagggattc ttgcaggaat acctagtctt ttccacatta 180

```

ttccagtcct gggaatttc caatgctgtg tggcacaaca cctctccagg ccagggtcttc 240
tgctttgaac tttagaatag caaattaaaa ggagatggct tgaataatat tatttttata 300
aaacaatgcc cagaggaatt gagtgtgcta aagacaccag aaaaaaaggaa ttctttaaag 360
taacagcaaa tgatcaattt ttttaaccat tcttttattc tttcaccaaa tgtatattga 420
atgctaacac tattagatgc tagagtacca aagatgtgta cagtatcatt gccttaaaaa 480
tgatctatgt taaggggcaa gagaagagaa acatataat 519

```

<210> 85

<211> 1286

<212> DNA

<213> Homo sapiens

<400> 85

```

gcagtgacct ggaactgaag gcaaggacaa gattgattgg aaatgtcagc ctgtgctcac 60
ttttgcagct gagctattca aacttttggg gatgcagatt gcagcctgtg ctggctttat 120
tcattgcaacc attggctggt cacagtgta cacagtata tgaatgatg gcaaatattg 180
aaaatctggg aaatgaaaaa tggtaaaggc ctgtcctggg catcttgcat catgaggtag 240
ggctgtttct gaatccccaa gccctttcca ccaaggaggt ttagaattca gagtcagaag 300
atagggctgt gagtctgtgt tcagccattt actctctgag caacttggga gtttcaggcg 360
gaggggaatgg cacatgcaag ggccctgtcag tttgaaggag catggtacgt tacagggaatg 420
gtatagatag catacatata gggcaggctg agaggctgga agggcttggc ctttgaaatg 480
ccaggctaag gaattttgga ctttccctaa aggaagacca tgggaaatgg aaatttttaag 540
ggctgtgggaa aggggaatta gggatcagaa ttcttaattg ttaaattattg ctcaccccaa 600
attgcagcgt aagaaggaaat gggatagaaa ggaatgttta tggattcaga gagatgggct 660
tagaaacctt aagattcatg gtacgagagt cttcgagcag gggcttgcgt gagcaaaaga 720
ggctcccgct gagcaggttt gtcttaaaact cttgttgtct ttctgaatgg gtatcaaaga 780
ggggcttctc gcagcctgga tgaccggggc tgccttcctt tgctcttgtg cggtgaggga 840
cgcacgcctg gctaacttca tagaggccca ggccatgggc atgcccagag gctgagctag 900
acctatgctg aagaaagcca ccccgagtgc cttgggtcca caggccttat tatctgtagc 960
tggtctttgaa tgctgtttgc atcattcact gtctaggggc cttacctgag cctgaagtgt 1020
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ttcaggaaag atctgtctca ccagaacta ggagaagcta gaggacctgg gtccctgccc 1140
ctggaaggca aaggaatgca catgttata ggacctgtt ccaacagcag tggctgtcat 1200
ttgttgtgca cctactatgt gtatgcacaa ggctaaatgc ttctgtacg tttctcattt 1260
aatcctcaca gcagctcttc aacata 1286

```

<210> 86

<211> 400

<212> DNA

<213> Homo sapiens

<400> 86

```

gaaaaacatg atattttcat ttaagggagg ggtaaaacca agttaaatta aaacagaaaa 60
gttttaaaag ctgcagtaat actaagtcac agtgtagaaa aattgcaacc agaattgtgc 120
taacactatg tgtttggaaa tcattatata taagcaggca tgctttattg tgaattcttt 180
tacttattag tctttcagag aacagtggtt tcatgagtac taactctttg gctttgaaaa 240

```

```
acatttcttt tttattatga actcattcag aaagaattgt tacgtacgtt taactgtgta 300
aatcctattc cttttcttcc atatttcttt ctagaagttt tagagtatgt ttcataatcc 360
tcttattctg ttctaacagc aataaaaatta aggaaaaaact 400
```

```
<210> 87
<211> 396
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> unsure
<222> (162)..(246)
<223> a, c, g or t
```

```
<400> 87
cgcggagcgc tgggtggaaa ttatctctac agagaacctt aggaatgata ctagtctctgt 60
cttacaacta gcataaacag gggcagatca ccaagtcggc cccaaagggc ctgtggcttt 120
ggctctggct ctggctcttc tctctaaacc aatgctactc annnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240
nnnnnnncaa aagctctggg cctaccatt ataatttta aaccattgca ttacagaat 300
tatcccaact gggtctttta tggcagtata ttcatactt ggtataccac acacagcaat 360
ggaaaagaaa ctacagacta cacagaacat ggatga 396
```

```
<210> 88
<211> 288
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> unsure
<222> (251)
<223> a, c, g or t
```

```
<220>
<221> unsure
<222> (254)
<223> a, c, g or t
```

```
<220>
<221> unsure
<222> (266)
<223> a, c, g or t
```

```
<220>
<221> unsure
<222> (269)
```

<223> a, c, g or t

<220>

<221> unsure

<222> (273)..(274)

<223> a, c, g or t

<400> 88

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gtttctgaggc actctgtgag acaaaaaataa agatggcctc caaggcctcc attctaagca 60
tggagttctct gggccatcag gagacctctt aaaattgcag gtgtcattgt aggtgttaact 120
attaggtatt actatagtagt tctatagtagt taataccaat actataatat tataacttata 180
ataaatatata gttttacttt atgtattatc atatatataa ttaaattata tattataata 240
tagtattgta nttntataag catatntant atnntcntat tatgtgta 288
```

<210> 89

<211> 125

<212> DNA

<213> Homo sapiens

<400> 89

```
gacaatttat aattcaaagg gaagcagaac ataaagattt ggacatttct tgggccagcc 60
atgtaaaaga tgaaaaagat ttggacaatt ttcagtcacg ccatgtaaaag gntaaaaaag 120
tatgt 125
```

<210> 90

<211> 314

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (286)

<223> a, c, g or t

<400> 90

```
aagagcacaa ggtaatggta tctctagaat cttccagaag tgaagatttt agcttataat 60
gcaccagtatt atcagtgttg ggtgaggcct atagtcggcg ttggtaccat gttattcaca 120
ggtgtctctc atcatgagga ttatgggttg ttttgccctt ggagacctgg tctactgct 180
tctgatagag gcttaactgg gtccagtgtc aagagggtca ctgtgggtcca taaaagcaaa 240
cagacaagct ctggcgagat agaagtgcta ctacttgga cattgntcct ttgtgaagta 300
aaaagtattt gttg 314
```

<210> 91

<211> 233

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (5)

<223> a, c, g or t

<220>

<221> unsure

<222> (22)

<223> a, c, g or t

<400> 91

```
gccangggct cggccacggg tncggaaaagt ttgcacatcg ccatgtagct atgtgtgtag 60
agtgtcagcc tccatacaat gttaactgtt tccaagtgat agtggtagtg cccaacctgc 120
agtttagctg tgagatttgg gccagtaatt gatgttacag cccatttagg gacgacttta 180
attaacatca cctgtgagcc atgaatagcg caaacagcaa gtcaagatca tca 233
```

<210> 92

<211> 456

<212> DNA

<213> Homo sapiens

<400> 92

```
aattatttga ctttacaact ttatgatatg tttgatgcat ttttagtact ttgtgtattt 60
ttcattgtaa cattttaaat gactgttaag gagtttagtg gaccatocac agcacacatg 120
gaaaaatgct gcttagaagc atgggacatt aataagtga ctagatatta tatcttagaa 180
ttgtttact tttttgagaa tctcattaga aacctatgct gggatataaa attccttagg 240
cagatttcac taagtagagc caattgtcct ttgtttcttt tgctgaacc agtattgcat 300
aaaactgcc aatgcacaacc aagctgtagg ctgatggaaa acaacatcag ccaagagatt 360
cacctagaag ccagctaacg gagctggggt cccttttggg gtgaaggcat cagaagacca 420
tcagctctag aaataaaact gaaaaaaaaa aacaac 456
```

<210> 93

<211> 374

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (243)

<223> a, c, g or t

<220>

<221> unsure

<222> (329)

<223> a, c, g or t

<400> 93

```
catgccgccc ggacccccag cccaggacat catggtgccc agagagcgtg agccccaaagg 60
gcattggcag gagctgcgga ttccatctcc ctgggtgggt tccaggtggc acaggaagg 120
tgggcccggga ggcttgggtga cctgggagct gcccttggag gctatttcca ggggcctcag 180
gggtgggcgt gggggatttg gagtcttctg cctgtgcagg gtcaggcagg gtcggttggg 240
ggntcggagg tagatgccat ggtatgctgg gcagcaagt gctcaggaag cctctgggtg 300
tgagtcctcg ggggtcacca aggcaggang gggcagggat gtgcagggtc cgcctcgtc 360
tccccacgtc tggc 374
```

<210> 94

<211> 672

<212> DNA

<213> Homo sapiens

<400> 94

```
gcaccgtcac ctgcctacat accacacatc cagtgtgtgac tcccaggcag accgtggtgt 60
tgaccccaact ggatgtgtgg tatgtaggca cgggggtggca ccgtcacctg cccctcacag 120
acacactggc ggctgtgtgca caaaccact cagcacacaca gcactcagta agcggggact 180
gaccactca gacacgcaca caggcgacac tcacacacag gctcagcccc ccaaaccag 240
accagaggag tggagcgtac ggggtccact ggctagaaaa tgcaggttgg agcggcccca 300
tgcccggggg acccccagcc caggacatca tgggtgccag agagcgtgag ccccaagggc 360
attggcagga gctgcgcat ccatctccct ggggtgggttc caggtggcac aggaagggtg 420
ggcggcgagg ctgtgtgacc tgggagctgc ccttgagggc tatttccagg ggcctcagg 480
tgggcccgtg ggggatttgg gtcttctgct tgtgcagggt caggcagggt cggttggggg 540
ctcggaggta gatgccatgg tatgctgggc agcaagtggc tcagggaagg tctgggtgtg 600
agtcctcggg ggtcaccaag gcaggagggg gcagggatgt gcagggtccg cctctgtctc 660
cccagctctg gc 672
```

<210> 95

<211> 577

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (574)

<223> a, c, g or t

<400> 95

```
ccttaatttg aaactgcttt aattatccaa cactaaaaaa atgtcaaggg caagagggtg 60
tttgaactat ggaactgggt tagatgatgt atttttttta ttttgttaag tataataata 120
gttggttatg ttagggtgga aaagatcctt aaattttaga gctgcattgt ggagtattta 180
gaagtgaaca gtcattgtat ttgttattta aaatactaca cgaataaaca agatgaagca 240
aaattgtcca gctagatat ggggtctatga gtgtttctac ttctctctt ttctctctatg 300
```

```

tttgaatcc ttggtaaaat aaagtcaaa tggaaggagg aggagcttga gattgaaaa 360
tcagtttgag aagcagccac cttgactggc ttcactctaa tagcctggac gctgcctcca 420
cactccagggt gcactgctca gcattctcca agaagtcatt aagggcagac cctacgtgtt 480
aaatttcaat cagtttctact gagcaaatat gctgttaaat agagactgct gtgtgctgtg 540
tcagtgtgcc ttatggggcaa tgtgatgggt ctanaaa 577

```

```

<210> 96
<211> 438
<212> DNA
<213> Homo sapiens

```

```

<400> 96
gcggtctcca tctctaccat ggactaccag agggaaaggca gcacctctca tccccagggt 60
ggatggcctc cagtcagctg gggatgtat gcagctgtgt ggcagcaaat atgtccatgc 120
ctgcaaggcca ctacgccctc agtcacacgg tgatggggcac taatatccaa gaggagcaga 180
agtcaggccc atgggtcctt ttctccctct gccagagatg cagccccaca gcccttggtg 240
atcttgggtg ggagaaaaat cagagtttga catctcatcc cactgccttc tgctttctga 300
ccttactgag gtcagggtca tcaaggcctg ggggactggg acagggttaa ggggtgtcct 360
ttctccatcc gtcttccaac cccgtggaga ctacagatgc ctagggaagt ggaagggtct 420
tctcggggca caacatct 438

```

```

<210> 97
<211> 545
<212> DNA
<213> Homo sapiens

```

```

<400> 97
gcggtctcca tctctaccat ggactaccag agggaaaggca gcacctctca tccccagggt 60
ggatggcctc cagtcagctg gggatgtat gcagctgtgt ggcagcaaat atgtccatgc 120
ctgcaaggcca ctacgccctc agtcacacgg tgatggggcac taatatccaa gaggagcaga 180
agtcaggccc atgggtcctt ttctccctct gccagagatg cagccccaca gcccttggtg 240
atcttgggtg ggagaaaaat cagagtttga catctcatcc cactgccttc tgctttctga 300
ccttactgag gtcagggtca tcaaggcctg ggggactggg acagggttaa ggggtgtcct 360
ttctccatcc gtcttccaac cccgtggaga ctacagatgc ctagggaagt ggaagggtct 420
cctcggggca caccatctcc gcctccctg tgctgtcct ctgctgggtc ctgggttctc 480
cagtgattat agccttgct gcttccccca cagtggggaa cacagagccc tgcccagagg 540
cttga 545

```

```

<210> 98
<211> 142
<212> DNA
<213> Homo sapiens

```

```

<400> 98
aatttctggt attgtttac tgtacctgtg attcagctgg agatataatt cccaaattca 60

```

tatttttagc atgctggtgg tcaatgtagg cagctacctt atgggtatgt ataaccattt 120  
ccccctctga aatcagcctc tc 142

<210> 99  
<211> 864  
<212> DNA  
<213> Homo sapiens

<220>  
<221> unsure  
<222> (386)..(522)  
<223> a, c, g or t

<400> 99  
agcggggggg agagtataaa tgattagcag gattctggct aaaattgggc ctacaggggc 60  
ttgaataagc ttatttctta ttctttataa gactgtaggg tatactcttt tcagtccttat 120  
tactaattct ttatcagtaa tatgtattca tctttactgt cttgtgtctt ttgtctgatt 180  
cttctggctt taaggcactc tccttaataa gttttgaaat ctgtccagaa ctactgcag 240  
ccaaatttcc tggatttggg tactgtacct gtgattcagc tggagatata attcccaaat 300  
tcataatttt agcatgctgg tgggtcaatgt aggcagctac cttatgggta tgtataacca 360  
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gtcagggtgtt gggtttattag gagacattgc tgtgcatgtc acacagccag ttggcaccac 780  
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<210> 100  
<211> 735  
<212> DNA  
<213> Homo sapiens

<220>  
<221> unsure  
<222> (309)  
<223> a, c, g or t

<220>  
<221> unsure  
<222> (409)  
<223> a, c, g or t

<220>



<221> unsure  
 <222> (698)  
 <223> a, c, g or t

<400> 100  
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 aagcaggagg cagaatctgt gttttgattt tactttcacc tctgtgccag tagtttttct 180  
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 tttctttant actacacgtt ttttacttgc ctagccctta tcttttcttc ttcgctgttg 360  
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 aaaattctct ggagtatagc agtatcctgt attcttagtt agaaatttgg caaaccactt 660  
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 <211> 415  
 <212> DNA  
 <213> Homo sapiens

<400> 101  
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 ataatttggg ttttctcaag ttttgccatt ttaatcagca gaacttagat taattaattt 180  
 gtgagatgtc tatctttgcc tattaatttc ctctattgat atttttaact gctatcaatt 240  
 gcgattgctt tttcatatct gtcttctttt gtaaaagtat gacttttagt agaagtgtgc 300  
 tggagcagtt tgcagagcct tgcaaaattg atggtgccta tctatttcca gctctatgtt 360  
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<210> 102  
 <211> 146  
 <212> DNA  
 <213> Homo sapiens

<400> 102  
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 ttgactctgc ctttggattt tttttt 146

<210> 103  
 <211> 743

<212> DNA  
<213> Homo sapiens

<220>  
<221> unsure  
<222> (543)  
<223> a, c, g or t

<220>  
<221> unsure  
<222> (725)  
<223> a, c, g or t

<400> 103  
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cttgactctg cctttggatt ttttttttct tgagtctacc taacgtgaat tgcatttgat 180  
agtttggata ttccagaaaa acttctctac atattgtctc ctaatttatt ttaagtatta 240  
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gcagttcaaa gctgttcttc tggagaacat ggagtctgtg gtgtcttaga ctactgactt 540  
tgntgttatt catcctaccc acccttcatt tttctccatg agtaactgct ttctcttag 600  
tcttagtaac ccagaggcac agatgtccaa agacaacagt cagatggaaa tgtaaatcac 660  
agatctccac acctgaaaac accattggca aactgaaaac cagactagct ctgggaagca 720  
attgntatca gattgcacag atg 743

<210> 104  
<211> 448  
<212> DNA  
<213> Homo sapiens

<220>  
<221> unsure  
<222> (6)  
<223> a, c, g or t

<400> 104  
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ttcagaataa tgacactgaa ttgttcagggt tcgagggtggc agcggagggtc agaactgacc 180  
tgcttggaaat ctgctctctc tcatgtctcc tcttgacatg cgccctgctt ccgttctctc 240  
taacaagggtg aatggccttc attccaaggc aacacagtca ggttttgaca ctccatgggg 300  
aacaaggga aaatcagcat gactagcccc attctcttca ctcttaatcc cagagatagt 360  
gaatgcccc ctctaccac atctttgtgc cagggtcacct aaaagttgtt tgggtggagtc 420  
aatgtgggtg catgaggtaa gtcaacag 448

<210> 105  
 <211> 491  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> unsure  
 <222> (193)  
 <223> a, c, g or t

<400> 105  
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 caggagcttg aagcaccac tggaaatatt tcatggagga ctaaaatggc tgggtctcta 180  
 tgctcccgcg tantcagttc ccagaggcag ctgccctggg gaggggcagg tggtgggtgg 240  
 ggcaacactc tgcagctgag gcagaccctg aagggtgac agctggaggc catctgccca 300  
 gctcactcct gcagctggat ggaaggcct tcttggaga agggggctcg ggcaatgcat 360  
 ttccactctc actacaccta tatccctga ctctcagaga tctagcaact tgccctgcaa 420  
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<210> 106  
 <211> 594  
 <212> DNA  
 <213> Homo sapiens

<400> 106  
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 caggagcttg aagcaccac tggaaatatt tcatggagga ctaaaatggc tgggtctcta 180  
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 acttgagcct tctcactac aagttaggcc ttggcatctt ttgccagac tactacagtc 480  
 ctcaactggc ccaccagcca tctctccca cccaccat cctctgtgtg gtccacacac 540  
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<210> 107  
 <211> 467  
 <212> DNA  
 <213> Homo sapiens

<220>

<221> unsure  
 <222> (428)  
 <223> a, c, g or t

<220>  
 <221> unsure  
 <222> (446)  
 <223> a, c, g or t

<400> 107  
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 gcaccgaata aacctagtct tcagagactc aaaagttaaa atattatcct atatcctggt 180  
 aaattggcaa aacccaaaat gattaacata cctgacgctg caaagtcaca gtggcctggt 240  
 gcatttgac gttgttggtg atgttgtgta aaagactgca tcttctcgga acagcaattt 300  
 ggcattgatta tcaagatcta caaaaatggt catgcccttg cagtctcttg taatactagt 360  
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<210> 108  
 <211> 228  
 <212> DNA  
 <213> Homo sapiens

<400> 108  
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 gaaatgtggt cagagaggag aagtaggcag ggacctgatt acatagggct ttgtaaatca 180  
 gaatgaaaaa agttagaatc aggcctggcac agtggctcac acctgtaa 228

<210> 109  
 <211> 1324  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> unsure  
 <222> (312)  
 <223> a, c, g or t

<220>  
 <221> unsure  
 <222> (385)  
 <223> a, c, g or t

<220>

<221> unsure  
 <222> (419)  
 <223> a, c, g or t

<220>  
 <221> unsure  
 <222> (506)  
 <223> a, c, g or t

<220>  
 <221> unsure  
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 <223> a, c, g or t

<400> 109  
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 cctaggggtt tgcattgggtt tttttttgga aaaacccttg gaaaccggtt ggttattgtt 180  
 aggggaatgcc ctttattgat tccggcccca tttacccgga taatttaatt tattttttt 240  
 taacaaggtc tttttttccg aggtgaggga tgggggtatc agccatgaat ttgtgcccc 300  
 ggccaagtat anttgatttt agaaaaacggg ttctctttgt tgcacggctg tctcactct 360  
 gggtcaaaaga tcaccctct cggcncacaa agttctggat ttcaggtgta gttacgtgnc 420  
 gggctatact gatttaaaaa tcttttacca gagttgtgag tcagagttag atagtgcact 480  
 tgttggagtt attcaatgta cattanttta tctctcnntg atgtagaaaag taccatcag 540  
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 tctttttttt tttttcttta agtagagatg gagtttctatc atgttgccca ggcctggtctc 960  
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 gtgagccact gtgcccacct gattctaaac tttttcatc tgatttacaa agccctatgt 1080  
 aatcaggctcc ctgcctactt ctctctctct aacacatttc acttaacagt gtaaatcaca 1140  
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 tgcctagatc tattcaatca ttctatgtct tcatttcaag gaaggtccaa gaaaaaaaat 1260  
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 aaaa 1324

<210> 110  
 <211> 225  
 <212> DNA  
 <213> Homo sapiens

<400> 110  
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actctctatg gaattgcatt ctagtctctc ctgcttctgc ttatgcatgt gaaagccaga 180  
tgccccctct ctctctctct tttttttttt ttgatacgga gtttt 225

<210> 111

<211> 1435

<212> DNA

<213> Homo sapiens

<400> 111

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tgacacatga ggaactgcat gcacagacac tcaggacccg cctgcctccc ccagctcctc 180  
agccgggect gtgtccacc ccagtcacc gttgtgtcca tgetgtgctt tctgtgtcca 240  
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<210> 112

<211> 672

<212> DNA

<213> Homo sapiens

<400> 112

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caccaggcat tgttgacaac aatagaacaa tcactcagga ataatagag actaatatc 180  
aacttcaggt gaagtataga aatgttactc ctattttgct ctattacatc ttttaacttt 240  
tgtgtgtact aatgttatata atgtttatct tgtatatatt acaaatagag caatagattg 300  
ttatgattac tatgttacat aattttatgt ctgctaagga aggttgagaga agaagagcaa 360

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atgtacattt atatgttttt ttatatgact ttctttttat catttctggg ttgctcttca 420
tctattccct tggattccct tggtctgcta ttgctaaatg tattacattt ttatatggta 480
taggctgaac aacactatta tataaaagtt gttttatata atttttttaa atacattaat 540
agaaaaaaa acattttctc ataatacaca tgcaatagat ctacaaaaat taacagtaat 600
tccccaatat catccagccc ttagtcttta aatgcatttc cagaattgct aagaaaaattt 660
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<210> 113
<211> 523
<212> DNA
<213> Homo sapiens

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<400> 113
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aatagaattt aaaaataatt ctgtaatttt atattgaaac attaacgctt agaagtgtat 240
agaagtattg tgcattacag aagtaccacg tagttaaag ttgctcttaa tgaattaaaa 300
aataagagca gaagatcggt tagccatata tcatgtagaa agaacattgt gttggcagca 360
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aactttgctt actacaaat gataattgca gtactcacat ttcaagattg ttgtatgcaa 480
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<210> 114
<211> 840
<212> DNA
<213> Homo sapiens

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<400> 114
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ggcaatcact ttgagccaac tttgcttact acaaaatgat aattgcagta ctcacatttc 780
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<210> 115

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<211> 158  
 <212> DNA  
 <213> Homo sapiens

<400> 115  
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 taattctcat agaggtcctc ccagaggagt agaagaaggt tgaaaggcac ttctgtattt 120  
 agtcttctca caattaaggc tgggccaggt ggctcaca 158

<210> 116  
 <211> 528  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> unsure  
 <222> (510)  
 <223> a, c, g or t

<400> 116  
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 ggtatatgat aactgaagga atttgtctat tttagaaatt ctggaaaggc ttccctgaaa 180  
 gaattaaaga tgtgtaggag ttaagtaggt taaagagaac agaaagatga gttcaggaat 240  
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 gtccaatgag accttagtga gtctattgga caaaaaaac atacggggctc tctgcattta 480  
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<210> 117  
 <211> 511  
 <212> DNA  
 <213> Homo sapiens

<400> 117  
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 aggggtttgaa gcagaggcat gacatgagtg tgggctcctc tggagcatag gttgtatcca 180  
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 tgtctgttta attgtgctgt actattaatg ccagaaaaag gcaaatgtct caaagggtac 300  
 aggggacaca aatttgactc gattcaacct atttctagt ttgtgcacaa ttttttaagt 360  
 gataactccc tcctaatagt ggtttaaata tcagtactat aagacttcat tctatttggg 420  
 actgaataca aatgttggtt actaatgtgt aaatgtgtaa cgtatgactg atctctctac 480  
 agagtacggg aatgtcaggt gcaatttttag c 511



<210> 118  
 <211> 1382  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> unsure  
 <222> (1324)  
 <223> a, c, g or t

<400> 118  
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 agggtttgaa gcagaggcat gacatgagtg tgggctcttc tggagcatag gttgtatcca 180  
 tagcttagtc atccccccag taccttgata atttcttata cgtattagggt cctcaataaa 240  
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 gataacttcc tctaatagt ggtttaata tcagtactat aagacttcat tctatttggg 420  
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 agagtacggg aatgtcaggt gctattttta gctggcaaaa ccaaaggctg tttttattct 540  
 cctccttacc ttgatgacta tggggagacc gaccaggggc tcagacgggg aaatccttta 600  
 catttatgca aagagcgatt caagaagatt cagaagctct ggccaaca caagtgtcac 660  
 gaggaatttg gacatgcaca ggaagccaat cagacactgg ttggcattga ctggcaacat 720  
 ttataattat tgcaccacca aaaaacacaa acttggattt ttttaaccca gttggtcttt 780  
 taagaaagaa agaagttctg ctgaatttgg aaataaatc tttattttaa ctttctcttc 840  
 cagttttata gtttctgggt ctgaggactg atgaaaatca tcttccatca gcagattttc 900  
 ttgcactgtt tgcgtgtccc ctcaaatata atgtcttggg ttttaagatc gagcaaggag 960  
 cttctcttcc tagattggat cccagccctt ttgtgggggt ctgactgcat agtcccagcc 1020  
 attatgtgat atttcacgtt attgatgata gtgaaccgtg ggtccgaagc tgactcaacg 1080  
 gaggcaggga acaaaagtct tgtgtctctg tgggtcatac ttctctggtc cactgagttg 1140  
 cccaacactg ggactgggtt ggtgtccctt ctgctgacag gaccctactc ctaggagcaa 1200  
 agtggttgat ttgaaaggca gtgttccctt ctctccattg actatgagag atgtggggga 1260  
 cacacatgca agaagaagcc cgtggggaga aggtggatc ctggtgtgct ggtcgggttt 1320  
 tcanggtctg tagaggtttt tttttttttt ttttttttta aggcaagact tttggtcttg 1380  
 ag 1382

<210> 119  
 <211> 92  
 <212> DNA  
 <213> Homo sapiens

<400> 119  
 cttctaataa atgcaaatata ctttgtggca aatactgaga agaggtctgt ttacaagcta 60  
 ctatacttat aataagggaa ataatgagc ct 92

<210> 120  
 <211> 474  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> unsure  
 <222> (318)  
 <223> a, c, g or t

<220>  
 <221> unsure  
 <222> (465)  
 <223> a, c, g or t

<400> 120  
 catcaccgct ctctctggcca ttctcacctt tccccaacct gccgaagacc cagagaatct 60  
 cctagggtctt ccctttgtctg gcgacctcat ccaccatcaa aacctccgcc agggctcctgg 120  
 ctgagtcatc atccatcaca gcaggctgggt acaacatcac agtggaggac aattctctag 180  
 ggaccacaga ggatatgaat gtgacctggg ttagcaaggg cctccccaag aagctgggagc 240  
 agagtggggc accaggatca gcccccaatc cctggacctt ggctgtgagc ctgcctgagc 300  
 ctgagccagt gcaatgcngg tcttctgtat gtggctcagaa acttcagaca ccagaaaact 360  
 gtcaccttag atgttggaag agtctgttga gcttaacaaa ttgccagcaa ggtgagtgat 420  
 cccaattctg gagacactct ttcccaggag attgggaatg cagnttttgg gtgc 474

<210> 121  
 <211> 357  
 <212> DNA  
 <213> Homo sapiens

<400> 121  
 gctaactctgg agagcactgc taaaatgtta gagtctaagt aagctctgta ccagggggat 60  
 aaaatgttac tggacagagc atacatgtat ctgttagagt gagattcttt gctcttttca 120  
 gtaaaaggact actgactcaa aatcaattga agatcacata cagggaaaact ttgagggtttt 180  
 ttttttttcc ttccctcaaat catgggagag attttcaaag aagaaaaaat agaaaatatt 240  
 ttaatgcact ttaaaaatac aggtttgtct gcaccatctg tcagggtaaaa aaaatgaat 300  
 ttttagggaaa gagcacagat gtttattaat tcaatgtaga aagtatatta ctggctgt 357

<210> 122  
 <211> 641  
 <212> DNA  
 <213> Homo sapiens

<400> 122  
 ttttgagacg gagtcttgct ctgtctctca ggctggagtg taatggcaca gtcttggctc 60  
 actgcaactt ccacttccca ggttcaagca attctcctga ctcagctcc cagtagtgatg 120

```

ggattacagg caccacaac cgcaccacgc taatttttgt atttttagta gagatgggat 180
ttcaccatcc tggccagact ggtcttgaac tcatgacctc atgatccatc caccctggcc 240
tcccaaaatg ctgggattac aggcgtgagc caccacacct ggcccagcca gtaataact 300
ttctacattg aattaataaa catctgtgct ctttccctaa aattcatttt tttttacctg 360
acagatgggt cagacaaacc tgtattttta aagtgcatta aaatattttc tattttttct 420
tctttgaaaa tctctcccat gatttgagga agaaaaaaa aaaaacctca aagttttcct 480
gtatgtgatc ttcaattgat tttgagtcag tagtccttta ctgaaaagag caaagaatct 540
cactctaaca gatacatgta tgctctgtcc agtaacattt tatccccctg gtacagagct 600
tacttagact ctaacatttt agcagtgtcc tccagattag c 641

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<210> 123
<211> 358
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> unsure
<222> (79)
<223> a, c, g or t

```

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<400> 123
gatctctccc tegtgttctt ctcttactaa atagctcagg ccaaaaaatgc cagggtcacc 60
aacaatgcct ctctctctna cataccccac acccaatcca tcagcaaatc ttgtcaactc 120
tgaattcaga atatacccca catccgaatg catctttcca tccctccacc aatcaccttc 180
cttcaagccc ccattattct taactggatt atcataacca cctctcactt ggttgtactg 240
tttccactat tgtcccccgc tcattttaatc tatccttgta caccacacca gtgacccctg 300
ttaaattgtaa atcagggcca gtcttggtgg ctgacacctg gaattccagc ctcccag 358

```

```

<210> 124
<211> 475
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> unsure
<222> (370)
<223> a, c, g or t

```

```

<400> 124
ttagacaca ggggtgtgtg gtgggtctt gctatgttgc ccaggctggt ctgcaactcc 60
tatcctcaag tgatctctcc acctcagcct cccaaagtcc tggcaattcca ggtgtcagcc 120
accaagactg gccctgattt acatttaaac aggatcactg gtgtggtgta caaggataga 180
ttaaattgag gggggacaat agtggaaca gtacaaccag tgaggagggt gttatgataa 240
tccagttaag aatgatgggg gcttgaagga aggtgattgg tggagggatg gaaagatgca 300
ttcggatgtg gggatatatt tgaattcaga gttgacaaga tttgctgatg gttgggtgtg 360
ggggtatgtn gagaagagag gcattgttgg tgaccctggc atttttggcc tgagctattt 420

```

agtaagagag gaacacgagg aggagatcct atttgagggg ggaaatttag tattt 475

<210> 125  
<211> 279  
<212> DNA  
<213> Homo sapiens

<400> 125  
tgcaaataga gattgttata ccttttcctt tctattccaa agtgtctaaa agattttttc 60  
ttagctagtg gcattggatg acacctataa tgtcttctaa aaatagtagc agtcataggg 120  
accatttcct tattttgaat attcattcat gttacaaagt ttataggaat ttctgaatta 180  
ttaagtactt ttaataggaa tgaagggtat tgtcattatt gcatcaaaat tccataagaa 240  
agtttggttg tcaaaatttg tggcctttgt ggtggtaag 279

<210> 126  
<211> 465  
<212> DNA  
<213> Homo sapiens

<400> 126  
ctttcaaaagt ccactcaaaa attatctttc ttgaagtcac ccatgactga aacgtctccc 60  
catcagatct tcagtgactc ttttcagaaa ttgccattag gcaaaagaact gccaggatct 120  
ttactagcaa tggtagttct tcctcccaaa aatgtggaaa ggctttgaga taaaagcact 180  
tatctttaca cctgcaatga ctaggacaag aaaatgtcac tgccagcagt tgatgcttca 240  
ccagcgtgtt gtaatatatg atgtgcattt tacatgtgga ctctcattta aattctttaa 300  
acatatccgt tagtcagata acatcatctc actttgcact ggaggaaacc aagttcagat 360  
aggatatata ccattgaatg accaagaggt taataaatat tgatgatgta aaggaaaatt 420  
atttctcagc agccaagtac taaaactttg taactggaga agatg 465

<210> 127  
<211> 54  
<212> DNA  
<213> Homo sapiens

<400> 127  
ggctttcaat ttccattgtc attccgcatt gctaatagtt tcttccaaat cctt 54

<210> 128  
<211> 564  
<212> DNA  
<213> Homo sapiens

<220>  
<221> unsure

<222> (551)

<223> a, c, g or t

<400> 128

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tttggatttg gaatatggaa gaaagtctgg gataaattta tggatttggtg aaaagtttat 60
agaggaatgt aaaacaaagt gaaaaaggag accctaaaag aaatatgaaa aagtagacta 120
agaagagctc atatagaaaag gaatctgagt agaacctgaa ttatctatga tcacaaaaatc 180
ggtgcctcta ttttttctta ttgggggatgc ctcatgcgtt gtatcttttc ttgaagagga 240
agacttccta tcacgtcctc tttagaaggct attcttagta atttccaaaa tgatagctta 300
cgcattagtt gaaataatac tagctgcttt aataaacaaa cccccc aaatc tttgggactt 360
agcaaaatag acatttcttt atctctcatg taaagtccaa aactggtgtt cgtgattgat 420
agacagattt ttttttaaaa aatcagtggt taagatattc agactccttc catcttatat 480
ttttgccatt gtgaacactt ggctttcaat actgttatgt taatctgtct caagtcagag 540
gatggaggat nggggatcac tcac                                     564
```

<210> 129

<211> 172

<212> DNA

<213> Homo sapiens

<400> 129

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atgaaatggg aaaattcatc gaatgacaca aactaccaca attcacttaa aataaaacac 60
acatacacat aacagataat ctgagagccg attatgaaat gaaggaaatt aattttagtc 120
ctaaaatggt ttcaaaaaga aaattccaga gccatataac ttactggtg ga 172
```

<210> 130

<211> 484

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (328)

<223> a, c, g or t

<220>

<221> unsure

<222> (418)

<223> a, c, g or t

<220>

<221> unsure

<222> (432)

<223> a, c, g or t

<400> 130

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gttttgctaa tttccaggaa cattccccc caacagctgg tacaggcttt tctacactac 60
tcaaggcccc agttgtacct tcttccattc tcagcagagt ttctcacctt caaatgtact 120
aaaataatgc agcctctcaa caaacactca ctgagacttc ttgtccaggc aatggagata 180
agtgagcccc ctcaaggagt ccacaggcca gtggaggaga aggaaatgca acaggggtgat 240
ataggaatat tcttggtgtc actgatggat tttaggata gtgccatcat gaggacagt 300
tttagggaag aggagtgagg caggtgtngg agggactgga ggatgtagag atagtggcag 360
gaaggcagag aaagatgccca cagtctaggt gaagggttaag aagtcctggg tggagatngg 420
ggtgaagagg angtgctgcc gaggtgacgg gtgtgaatga tcttgcaaa gtaagttagca 480
acgt
484

```

```

<210> 131
<211> 901
<212> DNA
<213> Homo sapiens

```

```

<400> 131
gcaatatatt ccttcatgag ctttgtttc ctgcagtgcc caatgatcca cttgtaccga 60
ctgctgtggt aggtgaggcc ctaaatcttt atcatctttt cattgcatgg atcacacctc 120
cttgcatggg ttgtcccaca tagagattat ttacagtgca gggaggcagct tggttttgaa 180
aatagacagc catggtatta tcaaagagag caactgtggt caaccaata tcagatctag 240
tggatttcaa attagcaagg catgctattt aatgtattct tcaattcttg gttgttagat 300
ttggagcaaa agtcatatgg ccttaatgtc tgactaatat taatgtgtca aaattagtag 360
aatgaagcca aatgcataca tctggagggt gcaatgttgc ctgaataact agtttatatg 420
taaaagtcta ctaaatggaa agggatgttt ctaaaatcct cccaatttat aaccacgaaa 480
gaacaaattt acaagtaaat attaggatta tgtgcatttg ctctagcttt tgtctttatt 540
aagaatgttt taatgtagg aaagtgtcta aaatcttgat gtggggtttg acattctaca 600
tgaaccttac ctgataagta atgttatctt tcaagaaatt tagaacaagc tacttgggtt 660
accactgtat aacatctaag acaatgtcat tactaatgac aattaacgct ttacagatg 720
taaaattata ttaattttta aacctaccta tatatttaag aatggaatgg gtttcatttt 780
tcatttcact ttgtaccctg ttcttgact aattatacac caatgattag taatcagctt 840
gcctgtatgt ttacaggttc catatcaatt ttaccagcgt ttctagttaa gctttaacca 900
a
901

```

```

<210> 132
<211> 782
<212> DNA
<213> Homo sapiens

```

```

<400> 132
caaggaaaat aataagtaaa atgcaagtaa atcagaattt gcaaaagaaa aattatgaat 60
taaacaacat tgaaaagtat ctggtaatct gtaccaatct actttgttag ttagtgtgaag 120
aaagaagata aggggatata attacaaata aagagaactt tttaaaaata aaagaataa 180
catataatca ttttatcata tatgtaatca ttatcatagt aacgaaatat atgtcaataa 240
gcataatcat tttaaaaaaa tctagaatcc agatgaaatg catagtttct agaaaaatgt 300
aaattactaa cattgactca agaaaagtag ataacctaaa tagaccaatt acaatacaag 360
aaaccaaata tagttaaaat attcccttaa agaaccatta aaaaatttag ttttatggtg 420

```

```

gctgattaaa atgaccattt cttatttttt tctttcaatt attattaaaa actaaccaga 480
aaaataaaaa gcaaaaaagt taaattcttt ggttgaaacc agcagactac ttaaatctct 540
gaattgcaaa ataagaagcg agcagcccaa atcagtcagg gtgaaacagg tgtgagtggg 600
gagagacact ggaaaaaaat ggtcataact tcagagctca gaaaatgttg gcaaagcatt 660
cettactaac ttaagtggca caacctattg caaaacggca cgtttttctt tacaacagga 720
ccaagggtcta gggactctta gtgggaaatt acctgagtct gattctgagg agaaatagag 780
ag

```

```

<210> 133
<211> 413
<212> DNA
<213> Homo sapiens

```

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<220>
<221> unsure
<222> (293) .. (347)
<223> a, c, g or t

```

```

<220>
<221> unsure
<222> (389)
<223> a, c, g or t

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<400> 133
gttcctcaaa cccagcatgt ctgttccac ctcagaggct tagcgcattg ttagccct 60
gactggggag ctctcctca gatatttga tggcagtgcc ttcatactc aagaacctac 120
tcaagggtcac ctctcagat gagccctccc tgccaatcca gtatcgtctc cctccttatt 180
tactttaatt tttccatggc tctcagatc attatctgaa aatgtacctt ttgtgcgttt 240
gtttacttgc ttattgtcta ttccccacac ttgaatgttc catagggcag ctannnnnnnn 300
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnaat ttgttgttg 360
ttgagtgaga aacaaattgg tcctttggnc gtcccccaca caagcatagc tat 413

```

```

<210> 134
<211> 440
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> unsure
<222> (300)
<223> a, c, g or t

```

```

<220>
<221> unsure
<222> (311)
<223> a, c, g or t

```

<220>  
 <221> unsure  
 <222> (328)  
 <223> a, c, g or t

<220>  
 <221> unsure  
 <222> (347)  
 <223> a, c, g or t

<220>  
 <221> unsure  
 <222> (372)  
 <223> a, c, g or t

<220>  
 <221> unsure  
 <222> (378)  
 <223> a, c, g or t

<220>  
 <221> unsure  
 <222> (396)  
 <223> a, c, g or t

<220>  
 <221> unsure  
 <222> (399)  
 <223> a, c, g or t

<220>  
 <221> unsure  
 <222> (408)..(410)  
 <223> a, c, g or t

<400> 134  
 tcggctcgag caggaatgag ccaactgcgc tagcctatgt tccttgatta atacctccaa 60  
 atctgttcaa gaaatatgac aatcaaatca catgcaagtg gtatacagag caaaattggg 120  
 tgggttagct actatattga atatttccat taaaaggact agaagggaaa cacacatgat 180  
 gattttcttt tttccaagag gcattttggg cagaggtaac aatgaggcag tggagggtatc 240  
 ctacaatttg aagcaatttt tctccttatt agccatttca tgaaaattat actataacan 300  
 ccatcagagg nagatatttt gttcaganta atatctatat ggcctgnaaa cagactaaga 360  
 agttatcatc cncctctntg ttgttttgaa atttantcna aaaataannn ttttgaggata 420  
 tatatatata ttatattttt 440

<210> 135



<211> 186  
 <212> DNA  
 <213> Homo sapiens

<400> 135  
 ggatcattga gataccttgt taatttagtt ttaagtaatc aagagtgtg atgttttatt 60  
 catcttttaa actgttatga ctgaacggtc agaaatgatg gtatgtcttg ttctgttacc 120  
 aactagcaat ttatgtttca gtaaactgct ctatgtgata attcttgtgt taaaaatacc 180  
 attact 186

<210> 136  
 <211> 91  
 <212> DNA  
 <213> Homo sapiens

<400> 136  
 ttgtacacc tattttagaa gttcctataa atactttgaa ataagatctt tcccccttc 60  
 atggcaacca catatctact atatatctct g 91

<210> 137  
 <211> 76  
 <212> PRT  
 <213> Homo sapiens

<400> 137  
 Met Lys Gly Leu Tyr Gln Ala Ala Phe Gln Leu Leu Glu Lys His Phe  
 1 5 10 15  
 Leu Ser Thr Gly Leu His Leu Lys Leu Pro Ser Trp Tyr Leu Val Glu  
 20 25 30  
 Ala Gly Phe Gln Ala Glu Glu Ser Gly Pro Gly Leu Cys Ala Phe Ser  
 35 40 45  
 Ser Ser Ala Gln Leu Leu Leu Gly His Pro Cys Asp Ile Ile Phe His  
 50 55 60  
 Leu Thr Thr Ala Lys Gly Arg Asn Ala Arg Leu Ile  
 65 70 75

<210> 138  
 <211> 48  
 <212> PRT  
 <213> Homo sapiens

<400> 138  
 Met Ser Pro Ile Leu Gln Arg Ala Pro Leu Ala Thr Ser Leu Cys Trp  
 1 5 10 15  
 Leu Ser Gly Gly Glu Gly Ile Ser Gly Ala Leu Asp Met His Leu His  
 20 25 30  
 Tyr His Trp Phe Pro Val Phe Tyr Glu Val Ser Ile Ser Asp His Gly  
 35 40 45

<210> 139  
 <211> 82  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> UNSURE  
 <222> (32)..(39)

<400> 139  
 Met Asn Arg Thr Ser Pro Pro Trp Gly Val Glu Arg Ser Trp Ser Asn  
 1 5 10 15  
 His Leu Ser Gly Gly Thr Thr Phe Leu Tyr Cys Cys Leu Val Ile Xaa  
 20 25 30  
 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Asp Asn Leu Leu Thr Ile Ala Gln Thr  
 35 40 45  
 Tyr Met Leu Phe Met Val Tyr Leu Lys Ile Lys Ser Lys Thr Lys Met  
 50 55 60  
 Thr Asn Val Ser Ser Ala Asn Cys Cys Ser Gly Ser Tyr Tyr Ser Leu  
 65 70 75 80

Tyr Phe

<210> 140  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 140

Met Pro Leu Ser Phe Gln Thr Cys Ala His Cys Ser Ala Thr Trp Phe  
1 5 10 15

Ala His Pro Met  
20

<210> 141

<211> 47

<212> PRT

<213> Homo sapiens

<400> 141

Met Cys Lys Asn Gly Ile Ile Thr Ser Thr Ser Leu Val Glu Lys Thr  
1 5 10 15

Thr Trp His Arg Val Asn Ser Gln Cys Met Ser Glu Phe Thr Lys Cys  
20 25 30

Gly Asn Asn Met Thr Phe Phe Ser Gly Cys Ile Leu Tyr Leu Met  
35 40 45

<210> 142

<211> 49

<212> PRT

<213> Homo sapiens

<400> 142

Met Thr Thr Asn Phe Glu Asn Arg Leu Ser His Asn Lys Leu Glu Phe  
1 5 10 15

Met Glu Thr Ser Val Glu Gly Asn Thr Thr Phe His Pro Phe Thr Glu  
20 25 30

Ile Ile Tyr Leu Gln Leu Arg Ile Ile Cys His Val Tyr Tyr Leu Leu  
35 40 45

Met

<210> 143

<211> 36

<212> PRT

<213> Homo sapiens

<220>  
<221> UNSURE  
<222> (8)

<220>  
<221> UNSURE  
<222> (23)

<400> 143  
Met Asp Gln Lys Cys Gln Val Xaa Ser Lys Thr Ala Ala Trp Ala Cys  
1 5 10 15  
Trp Thr Leu Tyr Pro Lys Xaa Val Val Val Ser Arg Asn Leu Ala Thr  
20 25 30  
Ser Asn Arg Asp  
35

<210> 144  
<211> 92  
<212> PRT  
<213> Homo sapiens

<400> 144  
Gln Met Gly Asp Glu Glu Ser Pro Asn Lys Gly Pro Ile Pro Ile Cys  
1 5 10 15  
Tyr Thr Leu Phe Arg Lys Phe Trp Gln Leu Arg Asp Ser Ser Gly Thr  
20 25 30  
Leu Val Gln Cys Phe Glu Lys Ile Pro Gly Lys Thr Phe Pro Arg Tyr  
35 40 45  
Pro Glu Glu Val Ala Pro Val Phe Arg Gly Phe Lys Leu Val Asp Pro  
50 55 60  
Gln Pro Ser Gly Lys Lys Met Glu Glu Cys Lys Thr Gly Gly Glu His  
65 70 75 80  
Val Tyr Phe Ala Lys Phe Leu Thr Ser Glu Lys Val  
85 90

<210> 145  
<211> 95  
<212> PRT  
<213> Homo sapiens

<400> 145

Met Ile Lys Phe Cys Leu Arg Ile Leu Thr Leu Pro Glu Ser Asp Gln  
1 5 10 15

Gln Ile Val Thr Cys Tyr Pro Asn Phe Leu Thr Gly Pro Tyr Lys Leu  
20 25 30

His Ile Leu Ser Val Arg Leu Ser Asp Val Ser Glu Ile Phe Trp Ala  
35 40 45

Leu Leu Gly Thr Leu Leu Ser Arg Asn Pro Asp Val Ile Val Leu Tyr  
50 55 60

Phe Lys Lys Val Val Leu Leu Gln Ala Leu Ile Glu Asp Glu Leu Met  
65 70 75 80

Glu Arg Leu Lys Glu Met Met His Val Asn Ile Arg Val Pro Lys  
85 90 95

<210> 146

<211> 81

<212> PRT

<213> Homo sapiens

<220>

<221> UNSURE

<222> (19)

<400> 146

Met Tyr Thr Gly Thr Gln Ser Val His Thr His Glu Tyr Val His Thr  
1 5 10 15

His Thr Xaa Ala His Thr His Thr Asn Thr Pro Asn Cys Asp Met Met  
20 25 30

Arg Phe Ala Asn Asp Gly Thr Ala Ser Gln Asp Leu Cys Ala Thr Thr  
35 40 45

Glu Gln Ser Ser Lys Gln Ala Ser Arg Pro Leu Tyr Leu Phe Ser Val  
50 55 60

Val Thr Thr Leu Leu Val Ser Arg Ser Gln Arg Ser Arg Tyr Leu Lys  
65 70 75 80

Ser

<210> 147  
 <211> 43  
 <212> PRT  
 <213> Homo sapiens

<400> 147  
 Met Ser Leu Ile Ser Thr Trp Tyr Pro Leu Ser Tyr Thr Gly Tyr Val  
 1 5 10 15

Ser Gly Ser Leu Gln Leu Gln Phe Met Ala Val Tyr Lys Ile Ser Pro  
 20 25 30

Glu Leu Val Leu Thr Ser Phe Tyr Phe Cys Lys  
 35 40

<210> 148  
 <211> 93  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> UNSURE  
 <222> (23)..(31)

<220>  
 <221> UNSURE  
 <222> (76)

<220>  
 <221> UNSURE  
 <222> (92)

<400> 148  
 Met Phe Leu Leu Thr Thr Gln His Pro Gln Cys Leu Thr Tyr Ser Arg  
 1 5 10 15

Cys Tyr Val Ser Ala Phe Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Val  
 20 25 30

Cys Trp Val Gly Glu Gly Pro Gly Glu Gly Ser Gly Thr Glu Gly Met  
 35 40 45

Pro Gly Ser Leu Leu Pro Thr Ala Ser Thr Asp Gln Gln Arg Leu Gly  
 50 55 60

Pro Lys Gly Asp Ile Pro Gly Gly Arg Gly Arg Xaa Pro Pro Cys Leu  
65 70 75 80

Pro Ala Gly Gly Pro Arg Arg Arg Ala Gly Arg Xaa Thr  
85 90

<210> 149

<211> 53

<212> PRT

<213> Homo sapiens

<400> 149

Met Gln Pro Ile Tyr Asn Lys His Ser Pro Cys Asn Pro Ser Ser Pro  
1 5 10 15

Thr His Leu Thr Leu Pro Glu Lys Met Ala Asn Tyr Val Arg Ala Leu  
20 25 30

Cys Ile His Leu Phe Val Val Lys Thr Arg Arg Gly Val Ser Ser Glu  
35 40 45

Met Gly Lys Arg Leu  
50

<210> 150

<211> 36

<212> PRT

<213> Homo sapiens

<220>

<221> UNSURE

<222> (20)

<400> 150

Met Pro Leu Phe Thr Leu Glu Ser Ile Pro Ile Cys Ile Ile Lys Tyr  
1 5 10 15

Met Val Ala Xaa Leu Leu Ser Tyr His Tyr Gln Phe Cys His Gln Tyr  
20 25 30

Val Ile Ala Leu  
35

<210> 151

<211> 47

<212> PRT  
<213> Homo sapiens

<400> 151  
Met Ala Gly Pro Pro Cys Arg Ala Thr Leu Glu Arg Cys His Thr His  
1 5 10 15  
Ala Thr Asp Gly Trp Tyr Val Leu Ser Ser Val Glu Gly Asp Ile Asn  
20 25 30  
Val Gly Trp Ser Asp Glu Arg Arg Leu Pro Glu Arg Ser Gly Leu  
35 40 45

<210> 152  
<211> 41  
<212> PRT  
<213> Homo sapiens

<400> 152  
Met Val Thr Ala Ala Pro Val Tyr Leu Leu Gln Ile Arg Asn Leu Trp  
1 5 10 15  
Leu Arg Ala Ala Arg Ser Gln Gly Gln Ala Asp Ser Ala Asp Lys Trp  
20 25 30  
Gln Ser Trp Asn Pro Leu Pro Gly Val  
35 40

<210> 153  
<211> 81  
<212> PRT  
<213> Homo sapiens

<400> 153  
Met Thr Ala Gly Pro Leu Asp Gly Trp Met Val Arg Glu Glu Lys His  
1 5 10 15  
Ser Cys Thr Arg Lys Thr Gly Arg Lys Arg Ser Gln Ala Gln Gln Ile  
20 25 30  
Pro Ser Gly Trp Trp Lys Trp Ser Ser Ala Lys Tyr Cys Cys Tyr Cys  
35 40 45  
Cys Cys Arg Leu Cys Met Asn Phe Ile Tyr Leu Asp Pro Gly Ala His  
50 55 60



Ala Ala Glu Ser Leu Phe Gln Val Lys Cys Leu Gly Val Pro Ser Arg  
 65 70 75 80

Ser

<210> 154  
 <211> 51  
 <212> PRT  
 <213> Homo sapiens

<400> 154  
 Met His Phe Lys Lys Thr Lys Leu Gln Tyr His Tyr Tyr Ile Leu Lys  
 1 5 10 15

Leu Thr Leu Val Pro Tyr His His His Ile Ser Ser Gln Glu Leu Asn  
 20 25 30

Tyr Pro Asp Cys Leu Arg Ile Phe Leu Pro Val Gly Leu Leu Glu Ser  
 35 40 45

Glu Phe Lys  
 50

<210> 155  
 <211> 10  
 <212> PRT  
 <213> Homo sapiens

<400> 155  
 Met Gln Asn Lys Val Arg Gly Ser Ile Lys  
 1 5 10

<210> 156  
 <211> 41  
 <212> PRT  
 <213> Homo sapiens

<400> 156  
 Met Asp Gln Glu Lys Lys Thr Leu Gln Ser Lys Leu Asn Leu Glu Val  
 1 5 10 15

Gly Glu Ala Gly Arg Lys Lys Asn Arg Arg Glu Leu Lys Met Met Arg  
 20 25 30

Gly Leu Glu Thr Ile Gln Ser Gln Lys  
35 40

<210> 157  
<211> 36  
<212> PRT  
<213> Homo sapiens

<400> 157  
Met Asp Ser His Pro Pro Phe Leu Asn Leu Leu Ala Lys Ile Asn Met  
1 5 10 15  
Pro Leu Tyr Cys Asp Pro Ile Ile Val Ser Thr Tyr Leu Phe Leu Ile  
20 25 30

Thr Cys Met Leu  
35

<210> 158  
<211> 57  
<212> PRT  
<213> Homo sapiens

<400> 158  
Met Ser Tyr Glu Thr Arg Leu Tyr Ser Tyr Pro Ile Phe Ala Gly His  
1 5 10 15  
Leu Ser Asp Ile Ile Ser Tyr Val Met Phe Ile Ala Thr Leu Asp Lys  
20 25 30

Thr Leu Lys Thr Phe Leu Ser Leu Gly Ala Lys Tyr Ser Asn Gln Gly  
35 40 45

Asp Ser Phe Ala Tyr Leu Val Val Lys  
50 55

<210> 159  
<211> 57  
<212> PRT  
<213> Homo sapiens

<400> 159  
Met Gly Glu Gly Lys Leu Thr Gly Phe Pro Trp Ser Arg Glu Gln Gln  
1 5 10 15

Met Ala Ala Ala Arg Gln Ala Arg His Gly Ser Gln Arg Lys Arg Pro  
20 25 30

Ile Gly Phe Arg Val Trp Met Gln Ile Tyr Lys Cys Gly Gln Lys Ile  
35 40 45

Gln Thr Ser Ser Ile Lys Glu Gly Ala  
50 55

<210> 160

<211> 103

<212> PRT

<213> Homo sapiens

<400> 160

Met Cys Val Val Thr Ser Ser Pro Pro Ser Val Asp Ile Val Asn Asn  
1 5 10 15

Ile Leu Gly Gly Cys Thr Pro Pro Ala Ile Trp Gly Val Ala Ser Ser  
20 25 30

Ser Pro Pro Leu Asp Ile Ile Asn Asn Ile Thr Arg Gly Cys Thr Leu  
35 40 45

Pro Val Ile Lys Gly Glu Ile Gln Phe Phe Pro Pro Gln Arg Tyr Tyr  
50 55 60

Glu Gln Tyr Arg Arg Glu Leu Phe Ser His Ala Ile Trp Gly Val Thr  
65 70 75 80

Ser Ser Ser Ser Pro Trp Ile Leu Arg Lys Ile Met Gln Gly Asn Val  
85 90 95

Asn Pro Leu Arg Tyr Gly Glu  
100

<210> 161

<211> 46

<212> PRT

<213> Homo sapiens

<400> 161

Met Phe Tyr Gln His Leu Ile Ser His Asn Ile Ile Val Leu Asn Val  
1 5 10 15

His Ile Lys Lys Asn Gln Lys Arg Leu Trp Thr Phe Ile Lys Gln Gly

20

25

30

Tyr Thr Lys Gln Val Pro Ile Ser Phe Lys Arg Leu Lys Ser  
 35 40 45

&lt;210&gt; 162

&lt;211&gt; 22

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 162

Met Leu Asn Lys Val Gly Ser His Lys Asn Gln Ile Leu Ser Glu Ser  
 1 5 10 15

Thr Tyr Lys Arg Tyr Arg  
 20

&lt;210&gt; 163

&lt;211&gt; 76

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 163

Met Ser Thr Val Val His Leu Tyr Ser Cys Phe Asn Gln Ser Phe Glu  
 1 5 10 15

Ile Gln Tyr Val Asn Lys Val Ser Asn Asn Pro Glu Ser Leu Lys Cys  
 20 25 30

Thr Asn Ile Gln Val Gln Phe Ile Phe Tyr Phe Lys Arg Lys Val Lys  
 35 40 45

Glu Leu His Cys Leu Asn Gly Phe Ser Val Tyr Asn Lys Arg Tyr Ile  
 50 55 60

Asn Asp Phe Lys Asn Lys Lys Ser Lys Ile Glu Ser  
 65 70 75

&lt;210&gt; 164

&lt;211&gt; 38

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 164

Met Lys Asn Ala Ala Ile Ile Ser Lys Ile Trp Cys Ser Thr Leu Ile

1                      5                      10                      15  
 His Thr Asp Thr Pro Gly Val Leu Pro Thr Ile Ser Phe Val Pro Leu  
                     20                      25                      30

Val Gln Met Leu Ile Trp  
                     35

<210> 165  
 <211> 53  
 <212> PRT  
 <213> Homo sapiens

<400> 165  
 Met Gln Ser Pro Arg Met Ile Glu Asp Tyr Leu Leu Leu Asp Gln His  
                     1                      5                      10                      15

Ala Val Trp Arg Trp Arg Arg Asn Ser Phe Arg Phe Arg Gln Lys Pro  
                     20                      25                      30

Ser Tyr Leu Ser Leu Tyr Tyr Ile Asn Phe Phe Met Thr Arg Val Glu  
                     35                      40                      45

Val Asn Val Leu Lys  
                     50

<210> 166  
 <211> 23  
 <212> PRT  
 <213> Homo sapiens

<400> 166  
 Met Val Trp Tyr Phe Cys Gly Leu Phe Pro Ile Met Asp Thr Phe Ser  
                     1                      5                      10                      15

Phe Gln Thr Phe Gly Asn Lys  
                     20

<210> 167  
 <211> 32  
 <212> PRT  
 <213> Homo sapiens

<400> 167  
 Met Ile Phe Lys Ser Tyr Phe Gly Ala Ala Val Cys Tyr Leu Pro Leu

1

5

10

15

Ala Phe Cys Met Lys Arg His Ser Leu Ser Ile Leu Leu Arg Glu Asp  
 20 25 30

&lt;210&gt; 168

&lt;211&gt; 48

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; UNSURE

&lt;222&gt; (16)..(26)

&lt;400&gt; 168

Met Ser Ser Asp Lys Lys Lys Lys Gln Glu Tyr Thr Cys Asn Cys Xaa  
 1 5 10 15

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Ser Gly Arg Asp Lys Gly  
 20 25 30

Glu Arg Asn Glu Gly Phe Tyr Leu Ile Phe Gly Arg Lys Ala Val Ala  
 35 40 45

&lt;210&gt; 169

&lt;211&gt; 21

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 169

Met Asn Ser Asn Arg Ile Asn Thr Met Lys Phe Thr His Ser Gln Thr  
 1 5 10 15

Thr Lys Asn Glu Arg  
 20

&lt;210&gt; 170

&lt;211&gt; 35

&lt;212&gt; PRT

<213> Homo sapiens

<400> 170

Met Gln Leu Gln Cys Leu Ile Lys Leu His Thr Trp Lys Leu Ser Val  
1 5 10 15

Asn Ala Tyr Cys Cys His Tyr Trp Cys Lys Leu Asn Leu Asn Ile Ser  
20 25 30

Ser His Ile  
35

<210> 171

<211> 14

<212> PRT

<213> Homo sapiens

<400> 171

Met Lys Trp Thr Pro Thr Ser Tyr His Thr Gln Asn Arg Ser  
1 5 10

<210> 172

<211> 70

<212> PRT

<213> Homo sapiens

<400> 172

Met Pro Gly Pro Phe Ser Tyr Leu Ser Tyr Phe Leu Gln Asn Tyr Met  
1 5 10 15

Glu Cys Tyr Phe Glu Thr Asn Thr Ile Gln Ile Asn Leu Tyr Ser Ala  
20 25 30

Tyr Ser Pro Thr Pro Phe Pro Tyr Lys Lys Ser Glu Glu Asn Glu Thr  
35 40 45

Pro Gln Ala Phe Tyr Gly Lys Ile Leu Phe Val Cys Lys Ala Ile Ser  
50 55 60

Glu Ala Met Leu Gly Leu  
65 70

<210> 173

<211> 76

<212> PRT

<213> Homo sapiens

<220>

<221> UNSURE

<222> (26)

<400> 173

Met Leu Leu Glu Ser Pro Lys His Leu Ala Arg Pro Pro Thr Asn Gln  
1 5 10 15

His Val Asn Ser Ser Arg Thr Arg Arg Xaa Leu Leu Arg Ser Pro Arg  
20 25 30

Gly Pro Gly Arg His Leu Thr Leu Arg Thr Ala Gly Val Leu Tyr Val  
35 40 45

Ser Ile Thr Gln Gln Thr Arg Asn Ala Trp Gln Tyr Thr Pro Pro Leu  
50 55 60

Leu Leu Pro Gly Pro Trp Gln Glu Arg Asp Lys Tyr  
65 70 75

<210> 174

<211> 136

<212> PRT

<213> Homo sapiens

<220>

<221> UNSURE

<222> (129)

<220>

<221> UNSURE

<222> (134)

<400> 174

Met Lys Trp Ser Pro Trp Ile Met Gly Arg Asp Gly Thr Met Gly Ser  
1 5 10 15

His Pro Arg Gly Pro Gly Arg Cys Ser Arg Gly Trp Asp Gln Leu Leu  
20 25 30

Leu Leu Cys Phe Ser Thr Phe Leu Ser His Leu Glu Glu Glu Arg Ile  
35 40 45

Leu Leu Pro Phe Thr Gly Lys Thr Thr Glu Ala Leu Trp Ser Ser Ala  
50 55 60



Gly Met Gln Gly Arg Leu Trp Gln Ala Gly Leu Gln Val Arg Pro Trp  
65 70 75 80

Gly Ser Glu Glu Glu Gly Ala Cys Gln Glu Leu Pro Thr Arg Ser Gly  
85 90 95

Arg Ile His Met Leu Ile Cys Arg Arg Pro Gly Gln Val Leu Arg Arg  
100 105 110

Leu Gln Gln His Arg Ser Ser Asp Thr Leu Gly Glu Ala Ser His His  
115 120 125

Xaa Thr Arg Glu Val Xaa Leu Pro  
130 135

<210> 175

<211> 45

<212> PRT

<213> Homo sapiens

<400> 175

Met Val Asp Leu Pro Phe Lys Thr Leu Cys Leu Trp Gly Pro Gly Leu  
1 5 10 15

Cys Leu Thr Asp Leu Leu Thr Pro Ala Pro Gly Pro Asp Leu Val Leu  
20 25 30

Arg Lys Cys Met Leu Thr Asp Trp Met Asn Val Leu Phe  
35 40 45

<210> 176

<211> 82

<212> PRT

<213> Homo sapiens

<400> 176

Met Arg Asn Ala Leu Pro Leu Leu Gln Ser Met Leu Glu Lys Ser Pro  
1 5 10 15

Thr Ala Val Arg Leu Gln Leu Asn Trp Ala Ile Lys Asp Gln Gln Ile  
20 25 30

Pro Ala Glu Thr Tyr Pro Ala Val Asp Ile Thr Ala Ser Gly Ile Gly  
35 40 45



<221> UNSURE

<222> (21)

<220>

<221> UNSURE

<222> (53)

<400> 179

Met Pro Pro Ile Leu Gln Met Arg Pro Ala Gly Leu Lys Ala Gly Arg  
1 5 10 15

Glu Val Leu Gly Xaa Cys His Ala Gln Gly Cys Cys Leu Leu Ser Ala  
20 25 30

Gln Pro Phe Cys Lys Thr Ser Leu Pro Pro Gln Gln Ser Cys Phe Leu  
35 40 45

Pro Gly Glu Gly Xaa Val Leu Ile Ser Ala Phe Gly Gly  
50 55 60

<210> 180

<211> 77

<212> PRT

<213> Homo sapiens

<220>

<221> UNSURE

<222> (4)

<220>

<221> UNSURE

<222> (23)..(55)

<400> 180

Met Gly Leu Xaa Thr Thr Phe Leu Arg Arg Gly Gln Arg Ala Ser Ser  
1 5 10 15

Phe His Gln Glu Arg Ile Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
20 25 30

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
35 40 45

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Ser Ala Leu Trp Gly Gln Phe His His  
50 55 60

Ser Leu Glu Ser Asp Val Met Thr Leu Gly Leu Ser Pro

<210> 181  
 <211> 64  
 <212> PRT  
 <213> Homo sapiens

<400> 181  
 Met Lys Leu Pro Ser Pro Tyr Ala Leu Glu Pro Pro Pro Leu Ser His  
 1 5 10 15  
 Pro Gly Thr Ser Pro Gln Gln Phe Ser Leu Leu Ser Pro Phe Ser Leu  
 20 25 30  
 Ile Ser Pro Ser Asn Trp Ile Ile Leu Ile Cys Ile Gln Thr Cys His  
 35 40 45  
 Cys Ile Phe Tyr Phe Lys Asn Thr Lys Lys Asn Leu Asp Tyr Met Ser  
 50 55 60

<210> 182  
 <211> 122  
 <212> PRT  
 <213> Homo sapiens

<400> 182  
 Phe Phe Phe Leu Arg Gln Ser Gly Ser Val Ala Gln Ala Thr Glu Cys  
 1 5 10 15  
 Arg Gly Met Ile Ser Ala His Cys Ser Leu His Leu Leu Gly Ser Ser  
 20 25 30  
 Asp Ser Pro Thr Ser Ala Ser Arg Val Ala Gly Thr Thr Gly Thr Cys  
 35 40 45  
 His His Ala Trp Leu Ile Phe Val Phe Leu Val Glu Ala Gly Phe His  
 50 55 60  
 His Leu Gly Gln Thr Ser Leu Gln Leu Leu Thr Ser Ser Asp Pro Ser  
 65 70 75 80  
 Thr Leu Ala Ser Lys Ser Ala Glu Ile Thr Gly Val Ser His His Ala  
 85 90 95

Trp Arg Val Leu Leu Phe Asn Val Ala Thr Arg Lys Phe Thr Leu Ser  
100 105 110

Leu Trp Leu Thr Leu His Leu Phe Tyr Val  
115 120

<210> 183  
<211> 11  
<212> PRT  
<213> Homo sapiens

<400> 183  
Met Cys Gly Ile Leu Glu Pro Val Leu His Arg  
1 5 10

<210> 184  
<211> 75  
<212> PRT  
<213> Homo sapiens

<400> 184  
Met Phe Ile Pro Ile Thr Val Gly Thr Ile Lys Ala Ile Ser Leu Tyr  
1 5 10 15

Pro Leu Pro Tyr Leu Arg Lys Arg Lys Ile Asn Asn Lys Val Met Lys  
20 25 30

Glu Asn Thr Leu Ala Ile Ser Pro Phe Ser Ser Gln Trp Leu Asn Leu  
35 40 45

Thr Pro Thr Tyr Asp Pro Ala Leu Lys Tyr Ser Thr Ile Lys Cys Lys  
50 55 60

Glu Arg Glu Asn Trp Gly Ser Lys Val Lys Lys  
65 70 75

<210> 185  
<211> 31  
<212> PRT  
<213> Homo sapiens

<220>  
<221> UNSURE  
<222> (23)..(24)

<400> 185

Met Leu Thr Val Lys Thr Leu Leu Ser Gln Val Cys Pro Tyr Leu Cys  
1 5 10 15

Pro Leu Leu Leu Leu Gly Xaa Xaa Lys Lys Lys Lys Ile Gln Leu  
20 25 30

<210> 186

<211> 37

<212> PRT

<213> Homo sapiens

<400> 186

Met Arg Leu Ala Val Leu Phe Trp His Thr Ser Tyr Ile Tyr Ile Cys  
1 5 10 15

Tyr Lys Pro His Thr Thr Leu Phe Leu Leu Gly Arg Phe Leu Lys Asn  
20 25 30

Met Lys Leu Tyr Arg  
35

<210> 187

<211> 69

<212> PRT

<213> Homo sapiens

<400> 187

Met Pro Ser Val Gln Gln Ala Leu Ser Thr Pro Leu Ser Gly Val His  
1 5 10 15

Val Arg Val Leu Ser Glu Leu Thr Leu Leu Cys Thr Leu Cys Thr His  
20 25 30

Ser Ile Ile Cys Thr Gln Leu Phe Ser Trp Glu Met Gln Leu Cys Leu  
35 40 45

Val Phe Pro Ala Pro Ser Thr Leu Ser Asn Cys Thr Ser Phe Leu His  
50 55 60

Leu Ala Ile Ser Leu  
65

<210> 188

<211> 72  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> UNSURE  
 <222> (5)

<220>  
 <221> UNSURE  
 <222> (11)

<220>  
 <221> UNSURE  
 <222> (57) .. (59)

<400> 188  
 Met Ser Ile Ile Xaa Leu Phe Tyr Ser Thr Xaa Phe Gly Ala Cys Tyr  
 1 5 10 15  
 Gly Gly Met Val Ser Gly Ile Val Ala Met Lys Ser Met Ser Phe Glu  
 20 25 30  
 Glu Ala Gln Gly Lys Phe Arg Lys Phe Ser Cys Met Arg Lys Cys Leu  
 35 40 45  
 Leu Thr Asn Thr Gly Leu Lys Lys Xaa Xaa Xaa Phe Ser Val Phe Val  
 50 55 60  
 His Ser Leu Gln Asn Leu Leu Leu  
 65 70

<210> 189  
 <211> 18  
 <212> PRT  
 <213> Homo sapiens

<400> 189  
 Met Ile Leu Val Gly Arg Ser Pro Leu Ala Phe Met Met Ile Leu Tyr  
 1 5 10 15  
 Val Cys

<210> 190  
 <211> 38

<212> PRT  
<213> Homo sapiens

<220>  
<221> UNSURE  
<222> (2)

<220>  
<221> UNSURE  
<222> (26)..(27)

<400> 190  
Met Xaa Leu Thr Met Arg Ile Thr His Leu Ile Cys Ile Leu Val Ser  
1 5 10 15  
Ser Leu Gly Ile Ile Asn Ala Ile Phe Xaa Xaa Phe Leu Phe Ser Phe  
20 25 30

Gln Phe Phe Cys Ile Pro  
35

<210> 191  
<211> 24  
<212> PRT  
<213> Homo sapiens

<400> 191  
Met Leu Leu Tyr Lys Tyr Ser Tyr Lys Ile Gly Lys Gln Asp Ala Thr  
1 5 10 15  
Gln Val Ala Glu Asp Gln Arg Leu  
20

<210> 192  
<211> 39  
<212> PRT  
<213> Homo sapiens

<220>  
<221> UNSURE  
<222> (27)

<400> 192  
Met Phe Thr Val Gly Pro Tyr Gly Val Leu Arg Leu His Phe Ile Ser  
1 5 10 15



Cys Asn Ile Phe Val Cys Cys Phe Phe His Xaa Leu Leu Ile Cys Val  
 20 25 30

His Ile Thr Asn Ser Val Ser  
 35

<210> 193  
 <211> 43  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> UNSURE  
 <222> (37)..(38)

<400> 193  
 Met Cys Ser Cys Leu Gly Ala Ile Pro Asp Thr Ser Leu Gly Thr Ala  
 1 5 10 15

Phe Tyr Trp Trp Phe Phe Leu Leu Gln Thr Leu Pro Pro Met Ile Trp  
 20 25 30

Asn Phe Ile Ser Xaa Xaa Lys Arg Lys Asn Val  
 35 40

<210> 194  
 <211> 22  
 <212> PRT  
 <213> Homo sapiens

<400> 194  
 Met Lys His Gln Asn Pro Gly Glu Lys Ile Leu Ile Tyr Leu Phe Asn  
 1 5 10 15

Ile Thr Leu Leu Ser Gln  
 20

<210> 195  
 <211> 12  
 <212> PRT  
 <213> Homo sapiens

<400> 195  
 Met Thr Leu Lys Lys Asn Arg Glu Tyr Phe Phe Pro  
 1 5 10

<210> 196  
 <211> 74  
 <212> PRT  
 <213> Homo sapiens

<400> 196  
 Phe Phe Phe Leu Arg Trp Arg Leu Ala Leu Val Ala Gln Ala Gly Val  
 1 5 10 15

Gln Trp Arg Asp Leu Gly Ser Leu Gln Pro Pro Pro Pro Gly Phe Arg  
 20 25 30

Ala Phe Ser Cys Leu Ser Leu Ser Ser Ser Trp Asp Tyr Arg His Leu  
 35 40 45

Pro Asn Thr Pro Gly Ala Phe Phe Glu Phe Leu Val Glu Met Gly Phe  
 50 55 60

His His Leu Val Asp Met Gly Phe Pro His  
 65 70

<210> 197  
 <211> 66  
 <212> PRT  
 <213> Homo sapiens

<400> 197  
 Met Gly Arg Pro Thr Val Cys Thr His Leu Leu Ser Val Leu Val Glu  
 1 5 10 15

Val Pro Leu Pro Val Cys His Cys Arg Ser Glu Ser Arg His Gly Asp  
 20 25 30

Ser Leu Thr Pro Ser Ser Tyr Pro Pro Ser Ala Pro Thr Pro Pro Gln  
 35 40 45

Val Ser Trp Trp Cys His Leu Pro Pro Trp Gly Cys Val Thr Leu Gly  
 50 55 60

Lys Leu  
 65

<210> 198  
 <211> 72

<212> PRT  
<213> Homo sapiens

<400> 198  
Met Leu Pro Arg Leu Gly Gly Arg Arg Ala Ala Leu Gln Arg Leu Leu  
1 5 10 15

Gly Leu Arg Pro Leu Leu Arg Val Pro Gly Arg Gly Gln Arg Glu Ala  
20 25 30

Ala Gly Pro Ala His Leu Ser Ala Arg Pro Glu Ala Gly Thr Cys Ser  
35 40 45

Gly Ala Glu Gln Thr His Glu Thr Met His Leu Phe Gly Ala His Ser  
50 55 60

Phe Tyr Arg Gly Arg Tyr Pro Thr  
65 70

<210> 199  
<211> 29  
<212> PRT  
<213> Homo sapiens

<400> 199  
Met Cys Thr Met Cys Ser Thr Leu Ser Tyr Met Leu Tyr Met His Tyr  
1 5 10 15

Phe Ser Lys Ser Thr Val Val Ser Arg Val Val Ser Arg  
20 25

<210> 200  
<211> 26  
<212> PRT  
<213> Homo sapiens

<400> 200  
Met Cys Thr Met Cys Ser Thr Leu Ser Cys Met Leu Tyr Met His Tyr  
1 5 10 15

Phe Ser Lys Ser Thr Gln Arg Tyr Tyr Glu  
20 25

<210> 201  
<211> 75

<212> PRT

<213> Homo sapiens

<400> 201

Met Cys His Ser Leu Arg Leu Lys Leu Pro Ser Cys Ser Glu Ser Lys  
1 5 10 15

Trp Leu Asn Gln Asp Ser Arg Pro Tyr Leu Leu Thr Leu Asn Ser Lys  
20 25 30

Leu Leu Trp Trp Lys Gly Leu Gly Asp Ser Arg Thr Ala Leu Pro His  
35 40 45

Asp Ala Arg Cys Pro Gly Gln Thr Phe Thr Ile Phe His Phe Pro Asp  
50 55 60

Phe Leu Asn Leu Pro Ser Phe His Ile Thr Val  
65 70 75

<210> 202

<211> 75

<212> PRT

<213> Homo sapiens

<400> 202

Met Phe Phe Lys Ala Lys Glu Leu Val Leu Met Lys Thr Leu Phe Ser  
1 5 10 15

Glu Arg Leu Ile Ser Lys Lys Ile His Asn Lys Ala Cys Leu Leu Arg  
20 25 30

Tyr Asn Asp Phe Gln Thr His Ser Val Ser Thr Phe Leu Val Ala Ile  
35 40 45

Phe Leu His Cys Asp Leu Val Leu Leu Gln Leu Leu Lys Leu Phe Cys  
50 55 60

Phe Asn Leu Thr Trp Phe Tyr Pro Ser Leu Lys  
65 70 75

<210> 203

<211> 40

<212> PRT

<213> Homo sapiens

<220>

<221> UNSURE  
<222> (4)..(32)

<400> 203  
Met Leu Leu Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
1 5 10 15  
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
20 25 30  
Gln Lys Ser Gly Ser Leu Pro Leu  
35 40

<210> 204  
<211> 33  
<212> PRT  
<213> Homo sapiens

<220>  
<221> UNSURE  
<222> (4)..(5)  
<400> 204  
Met Leu Ile Xaa Xaa Gln Tyr Tyr Ile Ile Ile Tyr Asn Leu Lys Leu  
1 5 10 15  
Tyr Met Ile Ile His Lys Val Lys Leu Tyr Ile Ile Ile Ser Ile Ile  
20 25 30  
Leu

<210> 205  
<211> 34  
<212> PRT  
<213> Homo sapiens  
<400> 205  
Met Ala Gly Leu Lys Ile Val Gln Ile Phe Phe Ile Leu Tyr Met Ala  
1 5 10 15  
Gly Pro Arg Asn Val Gln Ile Phe Met Phe Cys Phe Pro Leu Asn Tyr  
20 25 30  
Lys Leu

<210> 206  
 <211> 68  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> UNSURE  
 <222> (60)

<400> 206  
 Met Leu Phe Thr Gly Val Ser His His Glu Asp Tyr Gly Trp Phe Cys  
 1 5 10 15

Leu Trp Arg Pro Gly Leu Pro Ala Ser Asp Arg Gly Leu Thr Gly Phe  
 20 25 30

Ser Val Lys Arg Phe Thr Val Val His Lys Ser Lys Gln Thr Ser Ser  
 35 40 45

Gly Glu Ile Glu Val Leu Leu Leu Gly Thr Leu Xaa Leu Cys Glu Val  
 50 55 60

Lys Ser Ile Cys  
 65

<210> 207  
 <211> 62  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> UNSURE  
 <222> (56)

<220>  
 <221> UNSURE  
 <222> (62)

<400> 207  
 Met Leu Ile Lys Val Val Pro Lys Trp Ala Val Thr Ser Ile Thr Gly  
 1 5 10 15

Pro Asn Leu Thr Ala Lys Leu Gln Val Gly His His His Tyr His Leu  
 20 25 30

Glu Thr Val Asn Ile Val Trp Arg Leu Thr Leu Tyr Thr His Ser Tyr  
 35 40 45

Met Ala Met Cys Lys Leu Ser Xaa Pro Val Ala Gly Pro Xaa  
 50 55 60

<210> 208  
 <211> 53  
 <212> PRT  
 <213> Homo sapiens

<400> 208  
 Met Leu Phe Ser Ile Ser Leu Gln Leu Gly Cys Ala Leu Ala Val Leu  
 1 5 10 15

Cys Asn Thr Gly Phe Ser Lys Arg Asn Lys Gly Gln Leu Ala Leu Leu  
 20 25 30

Ser Glu Ile Cys Leu Lys Asn Phe Ile Ser Gln His Arg Phe Leu Met  
 35 40 45

Arg Phe Ser Lys Lys  
 50

<210> 209  
 <211> 83  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> UNSURE  
 <222> (81)

<400> 209  
 Met Pro Pro Gly Pro Pro Ala Gln Asp Ile Met Val Pro Arg Glu Arg  
 1 5 10 15

Glu Pro Gln Gly His Trp Gln Glu Leu Pro Ile Pro Ser Pro Trp Val  
 20 25 30

Gly Ser Arg Trp His Arg Lys Gly Gly Pro Gly Gly Leu Val Thr Trp  
 35 40 45

Glu Leu Pro Leu Glu Ala Ile Ser Arg Gly Leu Arg Val Gly Arg Gly  
 50 55 60

Gly Phe Gly Val Phe Cys Leu Cys Arg Val Arg Gln Gly Arg Leu Gly  
 65 70 75 80

Xaa Arg Arg

<210> 210

<211> 34

<212> PRT

<213> Homo sapiens

<400> 210

Met Leu Glu Tyr Leu Glu Val Asn Ser His Cys Ile Cys Tyr Leu Lys  
 1 5 10 15

Tyr Tyr Thr Asn Lys Gln Asp Glu Ala Lys Leu Leu Ser Leu Asp Met  
 20 25 30

Gly Leu

<210> 211

<211> 95

<212> PRT

<213> Homo sapiens

<400> 211

Met Ala Ser Ser Gln Leu Gly Tyr Val Cys Ser Cys Val Ala Ala Asn  
 1 5 10 15

Met Ser Met Pro Ala Ser His Ser Ala Leu Ser His Thr Val Met Gly  
 20 25 30

Thr Asn Ile Gln Glu Glu Gln Lys Ser Arg Pro Trp Val Leu Phe Ser  
 35 40 45

Pro Cys Gln Arg Cys Ser Pro Thr Ala Pro Gly Asp Leu Gly Trp Glu  
 50 55 60

Lys Asn Gln Ser Leu Thr Ser His Pro Thr Ala Phe Cys Phe Leu Thr  
 65 70 75 80

Leu Leu Arg Ser Gly Ser Ser Arg Pro Gly Gly Leu Gly Gln Gly  
 85 90 95



<210> 212  
 <211> 33  
 <212> PRT  
 <213> Homo sapiens

<400> 212  
 Met Val Ile His Thr His Lys Val Ala Ala Tyr Ile Asp His Gln His  
 1 5 10 15  
 Ala Lys Asn Met Asn Leu Gly Ile Ile Ser Pro Ala Glu Ser Gln Val  
 20 25 30

Gln

<210> 213  
 <211> 37  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> UNSURE  
 <222> (6)

<400> 213  
 Met Glu Ser Leu Leu Xaa Leu Leu Gln Ile Pro Asn Ser Leu Ser Lys  
 1 5 10 15  
 Thr Leu Lys Ile Phe Tyr Asn Ser Glu Glu Glu Lys Ile Arg Ala Arg  
 20 25 30

Gln Val Lys Asn Val  
 35

<210> 214  
 <211> 45  
 <212> PRT  
 <213> Homo sapiens

<400> 214  
 Met Thr Leu Val Arg Ser Val Leu Glu Gln Phe Ala Glu Pro Cys Lys  
 1 5 10 15  
 Ile Asp Gly Ala Tyr Leu Phe Pro Ala Leu Cys Ser Ser Met Pro Asp  
 20 25 30

Arg Gln Thr Glu Ile Ser Arg Asp Lys Asn Val Tyr Thr  
35 40 45

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<210> 215
<211> 21
<212> PRT
<213> Homo sapiens
```

<400> 215  
Met Asn Arg Asp Ala Ala Phe Asp Ser Val Leu Val Leu Asp Ser Ala  
1 5 10 15

Phe Gly Phe Phe Phe  
20

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<210> 216
<211> 46
<212> PRT
<213> Homo sapiens
```

<400> 216  
Met Lys Ala Ile His Leu Val Lys Arg Asn Gly Ser Arg Ala His Val  
1 5 10 15

Arg Arg Asp Ile Glu Arg Glu Gln Ile Pro Ser Arg Ser Val Leu Ala  
20 25 30

Ser Ala Ala Thr Ser Asn Leu Asn Asn Ser Val Ser Leu Phe  
35 40 45

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<210> 217
<211> 81
<212> PRT
<213> Homo sapiens
```

<220>  
<221> UNSURE  
<222> (5)

```
<400> 217
Met Leu Pro Arg Xaa Gln Phe Pro Glu Ala Ala Ala Leu Gly Arg Ala
  1             5             10             15
```

Gly Cys Trp Val Gly Gln His Ser Ala Ala Glu Ala Asp Pro Glu Gly  
20 25 30

Leu Thr Ala Gly Gly His Leu Pro Ser Ser Leu Leu Gln Leu Asp Gly  
35 40 45

Lys Ala Phe Leu Glu Glu Gly Gly Pro Gly Asn Ala Phe Pro His Leu  
50 55 60

Leu His Leu Tyr Pro Leu Thr Leu Arg Asp Leu Ala Thr Cys Leu Gln  
65 70 75 80

Thr

<210> 218

<211> 49

<212> PRT

<213> Homo sapiens

<400> 218

Met Pro Asn Cys Cys Ser Glu Lys Met Gln Ser Phe Thr Gln His His  
1 5 10 15

Gln Gln Arg Pro Asn Ala Pro Gly His Cys Asp Phe Ala Ala Ser Gly  
20 25 30

Met Leu Ile Ile Phe Gly Phe Ala Asn Leu Thr Gly Tyr Arg Ile Ile  
35 40 45

Phe

<210> 219

<211> 20

<212> PRT

<213> Homo sapiens

<400> 219

Met Cys Ser Glu Arg Arg Ser Arg Gln Gly Pro Asp Tyr Ile Gly Leu  
1 5 10 15

Cys Lys Ser Glu  
20

<210> 220

<211> 115

<212> PRT  
<213> Homo sapiens

<400> 220

Met Val Phe Leu Phe Val Cys Leu Phe Val Leu Arg Trp Asn Phe Ala  
1 5 10 15  
Phe Val Ala Gln Ala Gly Val Gln Trp Cys Ser Leu Gly Pro Arg Gln  
20 25 30  
Pro Pro Pro Pro Arg Phe Asn Ala Phe Ser Cys Leu Asn Leu Pro Ser  
35 40 45  
Ser Ala Asp Ala Arg Arg Ala Pro Pro Tyr Pro Ala Asn Phe Phe Leu  
50 55 60  
Phe Phe Phe Phe Phe Ala Val Glu Met Glu Phe His His Val Gly Gln  
65 70 75 80  
Ala Gly Leu Lys Leu Leu Thr Ser Gly Asp Pro Pro Thr Leu Ala Ser  
85 90 95  
Glu Ser Ala Gly Ile Thr Gly Val Ser His Cys Ala Gln Pro Asp Ser  
100 105 110  
Asn Phe Phe  
115

<210> 221  
<211> 56  
<212> PRT  
<213> Homo sapiens

<400> 221

Met His Lys Gln Lys Gln Glu Arg Leu Glu Cys Asn Ser Ile Glu Ser  
1 5 10 15  
Ser Glu Gly Gly Val Val Thr Pro Ala Glu Arg Glu Arg Glu Gln Gly  
20 25 30  
Pro Gln Ser Gln Ala Gly Trp Gln Gln Val Leu Leu Cys Pro His Leu  
35 40 45  
Gln Leu Gly Asp Ala Arg Arg Gly  
50 55

<210> 222  
<211> 62  
<212> PRT  
<213> Homo sapiens

<400> 222  
Met Lys Ser Asn Pro Glu Met Ile Lys Gly Lys Ser Tyr Asn Lys Thr  
1 5 10 15  
Tyr Lys Cys Thr Phe Ala Leu Leu Leu Ser Thr Ser Leu Ala Asp Ile  
20 25 30  
Lys Leu Cys Asn Ile Val Ile Ile Thr Ile Tyr Cys Tyr Ile Cys Asn  
35 40 45  
Ile Tyr Arg Tyr Asn Ile Tyr Asn Ile Ser Thr Thr Lys Ser  
50 55 60

<210> 223  
<211> 55  
<212> PRT  
<213> Homo sapiens

<400> 223  
Met Phe Trp Leu Tyr Ser Lys Ile Glu His Leu Val Ile Ile Phe Arg  
1 5 10 15  
Asn Thr Arg Ile Ser Lys Thr Gln Ile Phe Trp Pro Val Thr Cys Gly  
20 25 30  
Leu Tyr Ser Leu Lys Val Leu Lys Ile Ile Lys Val Arg Leu Leu Ile  
35 40 45  
Met Ile Leu Asp Asn Arg Ile  
50 55

<210> 224  
<211> 17  
<212> PRT  
<213> Homo sapiens

<400> 224  
Met Arg Asn Cys Asn Ser His Arg Gly Pro Pro Arg Gly Val Glu Glu  
1 5 10 15  
Gly

<210> 225  
 <211> 38  
 <212> PRT  
 <213> Homo sapiens

<400> 225  
 Met Thr Val Gly Trp Thr His Val Lys Ala Pro Pro Leu Ala Phe Arg  
 1 5 10 15  
 Gly Trp Leu Ser Asn Glu Thr Leu Val Ser Leu Leu Asp Lys Thr Thr  
 20 25 30  
 Ile Arg Ala Leu Cys Ile  
 35

<210> 226  
 <211> 51  
 <212> PRT  
 <213> Homo sapiens  
 <400> 226  
 Met Thr Lys Leu Trp Ile Gln Pro Met Leu Gln Arg Ser Pro His Ser  
 1 5 10 15  
 Cys His Ala Ser Ala Ser Asn Pro Glu Met Ala Tyr Thr Leu Pro Arg  
 20 25 30  
 Asp Val Thr Ser Thr Gln Gln Ala Pro Gly Phe Ser His Leu Cys Thr  
 35 40 45  
 Thr Leu Gln  
 50

<210> 227  
 <211> 81  
 <212> PRT  
 <213> Homo sapiens  
 <400> 227  
 Arg Val Arg Glu Cys Gln Val Leu Phe Leu Ala Gly Lys Thr Lys Gly  
 1 5 10 15  
 Cys Phe Tyr Ser Pro Pro Tyr Leu Asp Asp Tyr Gly Glu Thr Asp Gln

20 25 30

Gly Leu Arg Arg Gly Asn Pro Leu His Leu Cys Lys Glu Arg Phe Lys  
35 40 45

Lys Ile Gln Lys Leu Trp His Gln His Ser Val Thr Glu Glu Ile Gly  
50 55 60

His Ala Gln Glu Ala Asn Gln Thr Leu Val Gly Ile Asp Trp Gln His  
65 70 75 80

Leu

<210> 228  
<211> 25  
<212> PRT  
<213> Homo sapiens

<400> 228  
Met Gln Ile Thr Leu Trp Gln Ile Leu Arg Arg Gly Leu Phe Thr Ser  
1 5 10 15

Tyr Tyr Thr Tyr Asn Lys Gly Asn Lys  
20 25

<210> 229  
<211> 93  
<212> PRT  
<213> Homo sapiens

<220>  
<221> UNSURE  
<222> (42)

<220>  
<221> UNSURE  
<222> (91)

<400> 229  
Met Asn Val Thr Trp Val Ser Lys Gly Leu Pro Lys Lys Leu Glu Gln  
1 5 10 15

Ser Gly Ala Pro Gly Ser Ala Pro Asn Pro Trp Thr Leu Ala Val Ser  
20 25 30

Leu Pro Glu Pro Glu Pro Val Gln Cys Xaa Ser Ser Val Cys Gly Gln  
35 40 45

Lys Leu Gln Thr Pro Glu Asn Cys His Leu Arg Cys Trp Lys Ser Leu  
50 55 60

Leu Ser Leu Thr Asn Cys Gln Gln Gly Glu Cys Ala Gln Phe Trp Arg  
65 70 75 80

His Ser Phe Pro Gly Asp Trp Glu Cys Ser Xaa Trp Val  
85 90

<210> 230

<211> 28

<212> PRT

<213> Homo sapiens

<400> 230

Met Gly Glu Ile Phe Lys Glu Glu Lys Ile Glu Asn Ile Leu Met His  
1 5 10 15

Phe Lys Asn Thr Gly Leu Ser Ala Pro Ser Val Arg  
20 25

<210> 231

<211> 98

<212> PRT

<213> Homo sapiens

<400> 231

Leu Arg Arg Ser Leu Ala Leu Ser Leu Arg Leu Glu Cys Asn Gly Thr  
1 5 10 15

Val Leu Ala His Cys Asn Phe His Phe Pro Gly Ser Ser Asn Ser Pro  
20 25 30

Asp Ser Ala Ser Arg Val Ala Gly Ile Thr Gly Thr His Asn Arg Thr  
35 40 45

Gln Leu Ile Phe Val Phe Leu Val Glu Met Gly Phe His His Pro Gly  
50 55 60

Gln Thr Gly Leu Glu Leu Met Thr Ser Asp Pro Ser Thr Leu Ala Ser  
65 70 75 80

Gln Asn Ala Gly Ile Thr Gly Val Ser His His Thr Trp Pro Ser Gln



Ala Tyr

<210> 232  
 <211> 56  
 <212> PRT  
 <213> Homo sapiens

<400> 232  
 Met Pro Gly Ser Pro Thr Met Pro Leu Phe Ser Thr Tyr Pro Thr Pro  
 1 5 10 15  
 Asn Pro Ser Ala Asn Leu Val Asn Ser Glu Phe Arg Ile Tyr Pro Thr  
 20 25 30

Ser Glu Cys Ile Phe Pro Ser Leu His Gln Ser Pro Ser Phe Lys Pro  
 35 40 45  
 Pro Ser Phe Leu Thr Gly Leu Ser  
 50 55

<210> 233  
 <211> 43  
 <212> PRT  
 <213> Homo sapiens

<400> 233  
 Val Leu Leu Cys Cys Pro Gly Trp Ser Arg Thr Pro Ile Leu Lys Ala  
 1 5 10 15  
 Ser Ser His Leu Ser Leu Pro Lys Phe Trp Asn Ser Arg Cys Gln Pro  
 20 25 30

Pro Arg Leu Ala Leu Ile Tyr Ile Ala Thr Gly  
 35 40

<210> 234  
 <211> 48  
 <212> PRT  
 <213> Homo sapiens

<400> 234  
 Met Asn Ile Gln Asn Lys Glu Met Val Pro Met Thr Ala Thr Ile Phe

1

5

10

15

Arg Arg His Tyr Arg Cys His Pro Met Pro Leu Ala Lys Lys Lys Ser  
20 25 30

Phe Arg His Phe Gly Ile Glu Arg Lys Arg Tyr Asn Asn Leu Tyr Leu  
35 40 45

<210> 235

&lt;211&gt; 65

&lt;212&gt; PRT

<213> Homo sapiens

<400> 235

Met His Ile Ile Tyr Tyr Asn Thr Leu Val Lys His Gln Leu Leu Ala  
1 5 10 15

Val Thr Phe Ser Cys Pro Ser His Cys Arg Cys Lys Asp Lys Cys Phe  
20 25 30

Tyr Leu Lys Ala Phe Pro His Phe Trp Glu Glu Glu Leu Pro Leu Leu  
35 40 45

Val Lys Ile Leu Ala Val Leu Cys Leu Met Ala Ile Ser Glu Lys Ser  
50 55 60

His

65

<210> 236

&lt;211&gt; 67

<212> PRT

<213> Homo sapiens

<400> 236

Met Ile Thr Lys Ser Val Pro Leu Phe Phe Leu Ile Gly Asp Ala Ser  
1 5 10 15

Cys Val Val Ser Phe Leu Glu Glu Glu Asp Phe Leu Ser Arg Pro Leu  
20 25 30

Arg Arg Leu Phe Leu Val Ile Ser Lys Met Ile Ala Tyr Ala Leu Val  
35 40 45

Glu Ile Ile Leu Ala Ala Leu Ile Asn Lys Pro Pro Asn Leu Trp Asp  
50 55 60

Leu Ala Lys  
65

<210> 237  
<211> 23  
<212> PRT  
<213> Homo sapiens

<400> 237  
Met Lys Trp Glu Asn Ser Ser Asn Asp Thr Asn Tyr His Asn Ser Leu  
1 5 10 15

Lys Ile Lys His Thr Tyr Thr  
20

<210> 238  
<211> 63  
<212> PRT  
<213> Homo sapiens

<400> 238  
Met Gln Pro Leu Asn Lys His Ser Leu Arg Leu Leu Cys Gln Ala Met  
1 5 10 15

Glu Ile Ser Glu Pro Pro Gln Gly Val His Arg Pro Val Glu Glu Lys  
20 25 30

Glu Met Gln Gln Gly Asp Ile Gly Ile Phe Leu Val Ser Leu Met Asp  
35 40 45

Phe Glu Asp Ser Ala Ile Met Arg Thr Val Phe Arg Glu Glu Glu  
50 55 60

<210> 239  
<211> 63  
<212> PRT  
<213> Homo sapiens

<400> 239  
Met Asp His Thr Ser Leu His Gly Phe Ala His Ile Glu Ile Ile Tyr  
1 5 10 15

Ser Ala Gly Gly Ser Leu Val Leu Lys Ile Asp Ser His Gly Ile Ile  
20 25 30

Lys Glu Ser Asn Cys Val Gln Pro Asn Ile Arg Ser Ser Gly Phe Gln  
35 40 45

Ile Ser Lys Ala Cys Tyr Leu Met Tyr Ser Ser Ile Leu Gly Cys  
50 55 60

<210> 240

<211> 86

<212> PRT

<213> Homo sapiens

<400> 240

Met Leu Val Ile Tyr Ile Phe Leu Glu Thr Met His Phe Ile Trp Ile  
1 5 10 15

Leu Asp Phe Phe Lys Met Tyr Met Leu Phe Tyr Ile Tyr Phe Val Thr  
20 25 30

Cys Ile Met Ile Thr Tyr Met Ile Lys Met Ile Tyr Val Ile Leu Phe  
35 40 45

Ile Phe Lys Lys Phe Ser Leu Phe Val Ile Ile Ser Pro Tyr Leu Leu  
50 55 60

Ser Ser Thr Asn Leu Gln Ser Arg Leu Val Gln Ile Thr Arg Tyr Phe  
65 70 75 80

Ser Met Leu Phe Asn Ser  
85

<210> 241

<211> 49

<212> PRT

<213> Homo sapiens

<220>

<221> UNSURE

<222> (7)

<220>

<221> UNSURE

<222> (21) .. (39)

<400> 241

Met Leu Val Trp Gly Thr Xaa Lys Gly Pro Ile Cys Phe Ser Leu Asn  
1 5 10 15

Asn Asn Lys Ile Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
20 25 30

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Leu Pro Tyr Gly Thr Phe Lys Cys Gly  
35 40 45

Lys

<210> 242

<211> 63

<212> PRT

<213> Homo sapiens

<400> 242

Met Gln Val Val Tyr Arg Ala Lys Leu Val Gly Leu Ala Thr Ile Leu  
1 5 10 15

Asn Ile Ser Ile Lys Arg Thr Arg Arg Glu Thr His Met Met Ile Ser  
20 25 30

Leu Phe Pro Arg Gly Ile Leu Gly Arg Gly Asn Asn Glu Ala Val Glu  
35 40 45

Val Ser Tyr Asn Leu Lys Gln Phe Phe Ser Leu Leu Ala Ile Ser  
50 55 60

<210> 243

<211> 36

<212> PRT

<213> Homo sapiens

<400> 243

Met Thr Glu Arg Ser Glu Met Met Val Cys Leu Val Leu Leu Pro Thr  
1 5 10 15

Ser Asn Leu Cys Phe Ser Lys Leu Leu Tyr Val Ile Ile Leu Val Leu  
20 25 30

Lys Ile Pro Leu  
35

<210> 244

<211> 30

<212> PRT

<213> Homo sapiens

<400> 244

Met Tyr Thr Tyr Phe Arg Ser Ser Tyr Lys Tyr Phe Glu Ile Arg Ser

1

5

10

15

Phe Pro Pro Ser Trp Gln Pro His Ile Tyr Tyr Ile Ser Leu

20

25

30

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